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FPSC-RECORDS/REPORTING

PART IV PRICING¹:**34. General Principles**

All services currently provided hereunder (including resold Local Services), Network Elements and Combinations and all new and additional services or Network Elements to be provided hereunder, shall be priced in accordance with all applicable provisions of the Act and the rules and orders of the Federal Communications Commission and any state public utility commission having jurisdiction over this Agreement.

34.1 Most Favored Customer

35. Pursuant to Section 5 of this Agreement, BellSouth will treat AT&T as a Most Favored Customer.

36. Price Schedules**36.1 Local Service Resale**

The rates that AT&T shall pay to BellSouth for Local Services resale shall be BellSouth's Retail Rates less the Total Applicable Discount. If BellSouth reduces its Retail Rates after AT&T executes this Agreement, the Total Applicable Discount shall be applied to the reduced Retail Rates.

36.1.1 Total Applicable Discount

The Total Applicable Discount is the sum of three separate discounts: (i) the Region-wide Base Line discount; (ii) the Operational Parity Discount; and (iii) the Volume Discount.

36.1.1.1 Region-Wide Base Line

¹ THIS PART IV CONTAINS AT&T PROPRIETARY AND COMMERCIALY SENSITIVE INFORMATION WHICH MAY BE DISCLOSED BY BELL SOUTH ONLY TO EMPLOYEES OR REPRESENTATIVES OF BELL SOUTH WITH A "NEED TO KNOW" PURSUANT TO THE BELL SOUTH/AT&T CONFIDENTIALITY AGREEMENT ENTERED INTO FOR PURPOSES OF NEGOTIATIONS UNDER THE TELECOMMUNICATIONS ACT OF 1996. DISCLOSURE TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF AT&T IS PROHIBITED.

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1 The Region-Wide Base Line discount [REDACTED]
 2 and applies to any and all Telecommunication Services available for Resale
 3 as described in Part II of this agreement.

4 **36.1.1.2 Operational Parity Discount**

5 36.1.1.3 BellSouth shall provide the electronic interfaces required under this
 6 Agreement to enable AT&T to achieve operational parity with BellSouth by
 7 December 31, 1996. If the respective electronic interfaces are not fully
 8 operational by the dates specified in this Agreement then each of the
 9 specified elements of the Operational Parity discount shall become effective
 10 immediately at such specified dates and shall apply to all Telecommunication
 11 Services until the respective electronic interfaces are fully operational for
 12 ninety (90) consecutive days. BellSouth and AT&T shall agree on
 13 performance metrics that BellSouth must meet to be considered "fully
 14 operational."

| 15 | <u>Interface Elements</u> | <u>Operational Parity Discount</u> |
|----------|---|------------------------------------|
| 16 | Pre-Service Ordering Interfaces | [REDACTED] |
| 17 18 | Service Order Processing & Provisioning Interfaces | [REDACTED] |
| 19 20 | Directory Listing and Line Information Database | [REDACTED] |
| 21 | Service Trouble Reporting Interfaces | [REDACTED] |
| 22 | Daily Local Usage Data | [REDACTED] |

23 **36.1.1.3.1 Non-Recurring Charges for OUTPLOC**

24 BellSouth will charge [REDACTED]
 25 until electronic interfaces are fully operational, at which time BellSouth will
 26 charge the same rate as it charges for PIC changes.

27 **36.1.1.4 Volume Discount**

28 AT&T agrees to purchase from BellSouth the number of lines (basic 200012
 29 residence lines plus business lines) specified below between the

1 effective dates specified below and December 31, 1999. If AT&T meets
 2 its volume commitment levels before the specified effective dates, the
 3 discount rate corresponding to higher volume commitment level shall
 4 apply immediately to all Telecommunication Services.

| 5 | <u>Effective Date</u> | <u>Lines (Millions)</u> | <u>Volume Discount</u> |
|----|-----------------------|-------------------------|------------------------|
| 6 | 4/1/97 | [REDACTED] | [REDACTED] |
| 7 | 7/1/97 | [REDACTED] | [REDACTED] |
| 8 | 10/1/97 | [REDACTED] | [REDACTED] |
| 9 | 1/1/98 | [REDACTED] | [REDACTED] |
| 10 | 4/1/98 | [REDACTED] | [REDACTED] |
| 11 | 7/1/98 | [REDACTED] | [REDACTED] |
| 12 | 10/1/98 | [REDACTED] | [REDACTED] |
| 13 | 1/1/99 | [REDACTED] | [REDACTED] |

14 [REDACTED]
 15 [REDACTED]
 16 [REDACTED]

17 **36.1.2 Physical Arrangements**

18 BellSouth will make interconnection arrangements available at all
 19 tandem switching and end office switching locations.

20 At the discretion of AT&T, local interconnection may be accomplished via one-
 21 way local trunks, or two way local trunks, or AT&T may choose to deliver both
 22 Local Traffic and toll traffic over the same trunk group(s). With respect to the
 23 latter scenario, AT&T will have to provide an Percent Local Usage (PLU) to
 24 facilitate billing if it desires application of the local interconnection rate.

25 **36.1.3 Compensation for the exchange of Local Traffic shall be accomplished initially**
 26 **on a "bill and keep" basis. After twelve months of performance under this**
 27 **Agreement, either BellSouth or AT&T may demand that compensation due**
 28 **both parties for the exchange of Local Traffic be set at an amount equal to the**
 29 **TSLRIC incurred by BellSouth to provide interconnection service on a per-**
 30 **minute-of-use basis. For the first twelve months of TSLRIC compensation,**
 31 **each party's payments will be limited to one hundred five (105) percent of the**
 32 **calculated reciprocal payment on a monthly billing basis. In no event shall**
 33 **TSLRIC exceed \$0.001 per-minute-of-use during the term of this Agreement.**

34 **36.1.4 AT&T shall pay BellSouth the TSLRIC associated with the tandem switching**
 35 **function where local calls originated by an AT&T customer traverses a**
 36 **BellSouth tandem switch to be completed to another ALEC. In no event shall** 200013

1 the TSLRIC exceed [REDACTED] per-minute-of-use during the term of the
2 Agreement.

3 36.1.5 Compensation for the termination of toll traffic and the origination of 800 traffic
4 between the interconnecting parties shall equal the applicable interexchange
5 access charges.

6 36.1.6 Standard meet point billing arrangements shall apply when the completion of
7 a toll call involves both BellSouth and AT&T facilities.

8 36.1.7 In the event a toll call is completed through an interim service provider's
9 number portability arrangement (e.g., remote call forwarding, flexible DID,
10 etc.) to a Customer of the new Carrier of Record, the new Carrier of Record is
11 entitled to applicable end office terminating switched access charges (e.g.,
12 local switching, line termination, carrier common line, residential
13 interconnection charge, etc.) The company forwarding the call will be
14 considered to be adequately compensated through the charges it receives for
15 porting the number.

16 36.2 **Unbundled Network Elements/Ancillary Function**

17 The charges that AT&T shall pay to BellSouth for Unbundled Network
18 elements are set forth in Table 1.

19 36.3 **Directory Listing**

20 BellSouth will not charge AT&T or its customers for (i) basic white page
21 listings for residential customers; (ii) basic yellow page and business white
22 page listings (as available to BellSouth customers) for business customers; or
23 (iii) distribution of white and yellow page directories. BellSouth shall offer for
24 resale enhanced directory listings at Retail Rates, less the Total applicable
25 Discount, and pursuant to the terms and conditions offered to BellSouth
26 customers.

27 36.3.1 AT&T is responsible for providing BellSouth with accurate directory
28 information in an established format and in a timely manner.

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AT&T PRICE PROPOSAL TO BELL SOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|--|---|---|---|---|
| | | | Recurring | NRC |
| Network Interface Device | Twisted Pair | For 2 or 4-wire termination | None | All States |
| | Smart-Jack | T1 Line | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data | |
| | Fiber | | BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T | |
| | Coax | | BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T | |
| Distribution Media (Loop Distribution) | Various capabilities, incl. twisted pair, DS1, DS3, Optical SCNET, OCn, Analog Radio Freq., Broadband | | AT&T and BellSouth agree to work together to expeditiously resolve issues regarding the provision of this unbundled element, and to reach a resolution satisfactory to both parties | |
| Loop Concentrator/Multiplexer | Virtual remote terminal @ DS0 and DS1 levels, DLC system offering | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. | |
| Loop Feeder | Various options, including twisted pair, DS1, Fiber OCn | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. | |
| Loop Combination | 2W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data, etc. | [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | | No SLIC billing by BellSouth to AT&T or its customers | |

This proposal is contingent upon reaching agreement with respect to Local Services Resale (LSR) and Interconnection.

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|------------------------------|--|--|--|
| | | | Recurring | NRC |
| Loop Combination Cont'd | | | | |
| | 4W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data, etc | No billing by BellSouth to AT&T or its customers | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options |
| | DS1 | Terminated on DSX-1 | All states per month | See comment under 4W NRC. |
| | DS3 | Fiber Optic cable | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. |
| | Optical SONET OCn | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. |
| | SONET ring, terminated in CO | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. |
| | SONET ring between customers | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. |
| | IOC Mileage | LEC office to ALEC office | | Dedicated local transport charges apply. |
| | Channelization | Converts up to 96 VG loops to DS1 level for connection with ALEC POI. Concentrated or non-concentrated @ option of customer. | Monthly per system plus per circuit. | First system and for each additional system, plus per circuit. |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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|---|------|--------------------|---------------------|-----------|--|
| 1 | | | AT&T Price Proposal | | |
| 2 | Item | Type | Explanation | Recurring | NRC |
| 3 | | | | | |
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| 6 | | | | | |
| 7 | | Distance sensitive | | | |
| 8 | | loop rates | | | To the extent BellSouth offers rates to retail customers reflecting distance sensitive loop charges it shall provide loops to AT&T at equivalent charges. This provision applies to both implicit and explicit deaveraged pricing. |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|---|---|--|--|
| | | | Recurring | NRC |
| Loop Combination and Sub-Loop Elements | Loop cost variance by geographic area | Wire center census group, etc | Proposed loop prices are composite state averages. BellSouth will perform cost studies to determine geographic cost differences and implement prices that reflect those differences. | |
| Local Switching | Features | Route operator and directory assistance traffic to customer's preferred carrier. | None | None |
| | | Route local, intraLATA, interLATA, international traffic to customer's preferred carrier. | None | None |
| | | Translations to direct AIN queries to AT&T SS7 network, to receive responses, and to continue call handling in accordance with responses. | None | None |
| | | Line Interface | Residence Service. Standard tip & rng. Includes loop start, ground start, on-hook | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tr - [REDACTED] |
| Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tr - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. | | | |
| Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tr - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. | | | |
| | | Coin. Includes public, semi-pub. COCOT, and options | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tr - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |

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AT&T PRICE PROPOSAL TO BELL SOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|------------------------|-----------------------|--|---|---|
| | | | Recurring | NRC |
| Local Switching Cont'd | Line Interface Cont'd | | All States [REDACTED] per month | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options |
| | | 2W ISDN | | |
| | | | All States [REDACTED] per month per line interface | See Note for 2W ISDN |
| | | DS1 ISDN | | |
| | | TR 08- Dig Loop Cxr | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | | TR 303- Dig Loop Cxr | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | | 2-Wire/ 4-Wire analog interface to PBX | Monthly: Al- [REDACTED] Fla- [REDACTED] Ga- [REDACTED] Ky- [REDACTED] La- [REDACTED] Ms- [REDACTED] N.C. [REDACTED] S.C. [REDACTED] Tn- [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | DS1 interface to PBX or CPE | All States: [REDACTED] per month | See Note for 2W ISDN |
| | | Switched Fractional DS1 with capabilities to configure Nx64 channels. n < 25 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | | Direct in Dial | All States: [REDACTED] per month per equipped line | None |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|--|---|--|---|
| | | | Recurring | NRC |
| Local Switching. Cont'd | | | All States [redacted] month per equipped line | None |
| | Rotary | | | |
| | End office switching functions, including intraoffice, interoffice, toll, access, and local | | All States: Originating, first minute [redacted] Originating, add'l minute [redacted] Terminating, per minute [redacted] | None |
| | | Originating and Terminating switching | | |
| | | | | |
| | BellSouth proposed universal local call termination option. Includes local switching, common transport, signaling, and far end local switching to terminate local calls. | Originating and Terminating switching plus local trpt. Includes intraoffice. Also includes calling to expanded local and toll substitute plan areas. | All States: Originating, first minute [redacted] Originating, add'l minute [redacted] Terminating, per minute: [redacted] Includes access traffic and calling to and from all points in expanded and toll substitute areas | None |
| | Features | | | All States: [redacted] per feature activated after initial service installation. |
| | | Residential Features | | |
| | | | | All States: [redacted] per feature activated after initial service installation. |
| | | CLASS features | | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | | |
|--------------------------|-----------------------------|--|---------------------------------------|---|---|
| | | | Recurring | NRC | |
| Local Switching (Cont'd) | Features (Cont'd) | | None | All States [redacted] per feature activated after initial service installation | |
| | | Business/ Centrex Features | | | |
| | | | AIN Features | None | All States [redacted] per feature activated after initial service installation |
| | Trunk Terminations | CAMA ANI | None | None | |
| | | | None | None | |
| | | FGB | None | None | |
| | | | FGD/ IEC Operator | None | None |
| | | | DS 3 | None | None |
| | | | 64 kbps clear channel | None | None |
| | | | Switched digital- 56 & 64 kb/s | None | None |
| | | | | Included in individual element rates. | |
| | Loop/ Switch cross-connect | Connection of unbundled switch and colocated loop elements. | Included in individual element rates. | | |
| | Switch/ Trunk Cross-connect | Connection of unbundled switch and colocated transport elements. | Included in individual element rates. | | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|-------------------------|---------------------------|-------------------------|---|---------------------|
| | | | Recurring | NRC |
| Local Operator Services | 0+ Calling Card | 0+ calling card | ██████████ per call | None |
| | | automated calling card | 5 ██████████ per call | None |
| | Station | 0- calling card | ██████████ per call | None |
| | | 0- bill to third | ██████████ per call | None |
| | | 0- collect | ██████████ per call | None |
| | | 0- no attempt | ██████████ per call | None |
| | | 0+ bill to third | ██████████ per call | None |
| | | Automated bill to third | ██████████ per call | None |
| | | 0+ collect | ██████████ per call | None |
| | | automated collect | ██████████ per call | None |
| | | sent paid | ██████████ per call | None |
| | | Person | 0- calling card | ██████████ per call |
| | 0- bill to third | | ██████████ per call | None |
| | 0- collect | | ██████████ per call | None |
| | 0+ calling card | | ██████████ per call | None |
| | 0+ bill to third | | ██████████ per call | None |
| | 0+ collect | | ██████████ per call | None |
| | Dialing instructions | | Per call rate based on ██████████ expense per work minute | None |
| | Route 0- to live operator | | None | None |
| | Time & Charges | | Per call rate based on ██████████ expense per work minute | None |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------------|------------------------------------|--|--|------|
| | | | Recurring | NRC |
| Local Operator Services (Cont'd) | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Busy Line Verification | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Emergency Interrupt | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Emergency Call Trace | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Operator Transport | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of [redacted] per call. | |
| Local Directory Assistance | Directory assistance | | [redacted] per call | None |
| | Directory Transport | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of [redacted] per call. | |
| | DA Interconnection | | None | |
| | DA Database Service | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Direct Access to DA | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | DA Call Completion | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Call Completion Termination Charge | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Intercept | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| Common Transport | | An interoffice transmission path between LEC network elements. Includes multiplexing, grooming, cross-office wiring to DSX or LGX. Includes DS1, DS3, various SONET level term options, two way or one way option. | [redacted] per mi., per local minute [redacted] c. term., per local minute | None |

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|--|---------------------|--|--|--|
| | | | Recurring | NRC |
| 1 2 3 | Dedicated Transport | | 2-Wire Loc Chan [redacted] per mo 4-Wire Local Chan [redacted] per mo IO Channel: [redacted] per mile [redacted] per fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan [redacted] first [redacted] Add'l 4-W Loc Chan [redacted] First [redacted] Add'l IOC [redacted] First [redacted] Add'l |
| 14 15 | Voice Grade | An interoffice transmission path between AT&T designated locations | | |
| 16 17 18 19 20 21 22 23 24 25 26 | DS0 | An interoffice transmission path between AT&T designated locations. | 2-Wire Loc Chan: [redacted] per mo 4-Wire Local Chan: [redacted] per mo IO Channel: [redacted] per mile [redacted] per fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan [redacted] first [redacted] Add'l 4-W Loc Chan [redacted] First [redacted] Add'l IOC: [redacted] First [redacted] Add'l |
| 28 29 30 31 32 33 34 | DS1 | An interoffice transmission path between AT&T designated locations. | Local Channel: [redacted] per mo. IO Channel: [redacted] per mile [redacted] per fac term. Loc Chan not applicable when terminated in BellSouth office | Local Chan: [redacted] first [redacted] Add'l IOC: [redacted] Each |
| 37 38 39 40 41 42 43 44 45 46 | DS3 | An interoffice transmission path between AT&T designated locations. | Local Channel: [redacted] per mo. IO Channel: [redacted] per mile [redacted] per fac term. Loc Chan not applicable when terminated in BellSouth office | Local Channel: [redacted] IOC: [redacted] Each |
| 47 48 49 50 | STS-1 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|------------------------------------|----------------------------|--|--|------------------------|
| | | | Recurring | NRC |
| | Capacity on shared circuit | Includes multiplexing and grooming functionality and redundant equip and facilities to support protection and restoration | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data | |
| Dedicated Transport, Cont'd. | | | See SONET Rings | |
| | System dedicated to AT&T | Includes transmission equipment, facilities, and redundant equip and facilities to support protection and restoration | | |
| | | SONET line switched rings, OC48 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data | |
| | | SONET path switched rings, OC 3, OC 12 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. | |
| Digital Cross Connect System (DCS) | | Auto x-connect, grooming, pt to multi-pt, auto test, broadcast capabilities. Include x-conn to DSX or LGX. AT&T has real time access, real time configuration capabilities | | |
| | DCS1/0 | Per System | ██████████ per month | ██████████ first Add'l |
| | DCS3/1 | 28 DS1 Channel System | ██████████ per month | ██████████ first Add'l |
| | | Per DS1 | ██████████ per month | ██████████ first Add'l |
| | DCS3/3 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. | |
| | STS-1 X-conn | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. | |
| Tandem Switching | | | ██████████ per minute | None |
| Unbundled Element Features | Various | Features, functions, capabilities not specifically listed in this proposal | BellSouth will provide upon request at direct economic cost. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|--------------------------|---------------------------------|--|---|---|
| | | | Recurring | NRC |
| Data Switching | Circuit Switched Data Switching | Data switching functionality required to switch between industry standard ISDN interfaces | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | ISDN Packet Switching | Data switching functionality required to switch between industry standard ISDN interfaces. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | Frame Relay | Switching functionality required to connect facilities from the Frame Relay User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | ATM | Switching functionality required to connect facilities from the ATM User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| STPs | ISUP Msg. | | All States: ██████████ per msg. | None |
| | TCAP Msg. | | All States: ██████████ per msg. | None |
| | Usage Surrogate | Where measurement not available | All States: ██████████ per month per 56kbps facility | None |
| Signaling Link Transport | A or D link facility | 56kbps | All States: ██████████ per month | All States: ██████████ first ██████████ Add'l |
| | Signaling facility termination | 56kbps | All States: ██████████ per month | None |
| | Signaling facility termination | DS1 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|------------------|---------------------------------------|---|---|-----|
| | | | Recurring | NRC |
| SCPs/ Data Bases | | | | |
| | Line Info Database (LIDB) | Storage Agreement | AT&T will respond to BellSouth proposal on or before July 3, 1996 | |
| | | Use of ALEC LIDB data | AT&T will respond to BellSouth proposal on or before July 3, 1996 | |
| | | Validation | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Toll Free Number Portability Database | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | ALI/DMS Database | | AT&T may access 911 Tandem using local transport facilities contained in this proposal. | |
| | | Contains information regarding routing of calls to public safety answering points | | |
| | SCE/SMS/ AIN Access | Ability to create service applications in the BST SCE and deploy those applications to the BST SCP | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | | Ability to create service applications in the AT&T SCE and deploy those applications via the AT&T SCP to BST SSPs | Proposed price(s) will be provided following receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|-----------------------------------|--|--|-----|
| | | | Recurring | NRC |
| Interim Number Portability | | | Proposed price(s) will be provided following receipt of BellSouth cost data | |
| | SPNP- Remote | | Proposed price(s) will be provided following receipt of BellSouth cost data | |
| | SPNP-Directory Number-Route Index | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | SPNP-LENG Reassignment | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| Directory Listings | | | See interconnection proposal. In addition, charges for additional and optional listings shall be subject to reductions for sales commissions paid AT&T | |
| CMDS- Hosting | | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Non-Sent Paid Report System | | Mechanized report system providing companies within BellSouth region info regarding Non-Sent Paid message and revenue distribution | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Poles, Ducts, Conduits and Rights of Way | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Virtual Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Physical Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Lease of unused transmission media | | Interoffice transmission media which has no lightwave or electronic transmission equipment terminated to operationalize its transmission capabilities. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|--------------------------------------|------|-------------|--|----------------|
| | | | Recurring | NRC |
| Local Calling Area Boundary Guide | | | BellSouth proposal to provide at no charge accepted | |
| Recorded Usage Data Charge | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | Not Applicable |

Conrad J. ...

1 October 13, 1995

2 P. Nelson

3 Pam:

4 During our meeting last Friday, I took the action item of researching BCS' s
5 bill interface requirements. I have attached the Billing section of two BCS
6 documents that cover this area:

7 1.) The Local Service Marketing Service Description produced 5/6/95
8 and

9 2.) The Nationwide ETE Marketing Services Description produced
10 8/7/95.

11 I believe they address the BCS view of bill interface requirements.

Donna

12 Donna Hassebrock

13 cc: Michelle Augier
14 Bob Cavallo
15 Mario Martinez

NATIONWIDE ETE



END - TO - END

NATIONWIDE

MARKETING SERVICES DESCRIPTION

DRAFT

ETE MSD TEAM:

R. Hurwitz
J. D'Angelo
A. Cohen
S. Murphy
D. Stock
B. Ragette

August 7, 1995
Version 2.0

AT&T Proprietary (Restricted)
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pursuant to Company instructions

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NATIONWIDE ETE

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Regulated and non-regulated credits need to be tracked separately. Inquiry centers are also to report on types of problems referred by customers and AEs.

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NATIONWIDE ETE

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2 **9.1 Features/Options To Support (January '96):**

3 Billing needs to support all of the local elements of the end-to-end offer as defined in Appendix B,
4 in addition to any geographic deviations as described in the individual geographical specific MSD
5 addendums. The biller is required to be prepared to allow for the following types of charges:

- 6 • Non-Recurring
- 7 • Monthly Recurring
- 8 • Usage Sensitive
- 9 • Promotional Discounts and/or waiver of charges

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Monthly Charges / Mid-Cycle Service Changes:

Monthly Charges: For local service, we will be billing customers in advance for their calling plan and feature charges. Thus, the first customer bill will contain prorated service and feature charges in "arrears" plus the next months service and feature charges.

Service Changes: Customers who choose to change calling plans in the middle of their billing cycle should receive a bill with prorated charges covering each period.

Bill Periods:

Local and Long Distance charges will be integrated into one bill for remittance. Timely mailing of the bill is critical in order to make the transition to a single vendor seamless. The number of billing periods should correspond to the number available with the long distance portion of the service today. Local recurring charges should not be billed in arrears.

[REDACTED]



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10 **9.5 Bill Format**
11 **TO BE PROVIDED**

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18 **9.7 Bill Payment (January '96):**

19 In many areas, PUCs' rules and regulations will provide guidelines on bill payments. In general,
20 a customer's payment to AT&T shall first be applied to their local service charges, next to the
21 Long Distance portion of their bill, lastly to any "pay per use" services (976) as regulated by the
22 FCC and state. Any partial payments must first be used to cover the local service charges. Any
23 deviations to this plan will be outlined in the geographical specific MSD addendums.

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[REDACTED] This policy is dependent on legal and regulatory requirements and may
therefore, differ by geographic area. Specific policies will be outlined in the geographical
specific MSD addendums.

31 In general, any customer applying for service, whose financial viability is not established to our
32 satisfaction may be required to pay in advance of the service connection and installation charges
33 and least one month's service charge.

**Service Termination:**

AT&T local service may be disconnected only for nonpayment of AT&T local service charges, or as specified in local regulations with regard to LifeLine services. Thus, if a customer with this service is in treatment for charges associated with Long Distance, the collections activities associated with those charges cannot be used to impact the local service. There are several other valid reasons for termination of service including, Fraud, Improper Use, and/or Illegal Use of Service.

There will be a restoral charge applied when service is reconnected.

Cancellation for Cause:

For the causes listed below and without incurring any liability, we reserve the right to either temporarily discontinue the furnishing of a service or facility to a customer or terminate the contract.

When we take the initiative to terminate, the regulation's covering termination charges apply as in the case of termination of service at the customer's request.

In the event of discontinuation or termination of business service at a separate location we may transfer the unpaid balance to any other business service account of that customer.

Cancellation After Written Notice:

Five days after furnishing a written notice, we reserve the right to discontinue or terminate service for any of the following conditions:

- in the event of nonpayment of any sum due
- failure to make suitable deposits as required
- improper use of party line service by a customer
- if the character of use of a service is not in accordance with the class of service contracted for, and the customer refuses to contract for the proper class of service
- abuse or fraudulent use of service
- cancellation upon written request by public officials, i.e. judge of a court of record, a federal, state or local law enforcement agency, etc.

After furnishing a verbal notice (a confirming notice will be mailed), we reserve the right to discontinue or terminate service for any of the following conditions:

- use of profane or indecent language over the facilities
- abandonment of the station or facilities
- use of the service or facilities by the customer, or the manner of such use that tends to affect injuriously the efficiency of our general plant or services
- use of a service or facility in a manner which substantially impairs the service of a particular customer



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- in the event a customer transmits a previously recorded message over the exchange or toll facility without properly identifying himself or the sponsor.

Cancellation Of Service Provided By Another Company:

We are permitted to discontinue or terminate basic local exchange service of a customer for non-payment of undisputed charges of another provider if that provider's charges are billed by us, and the charges are either regulated by the Commission or the FCC.

Tracking Requirements:

The CSR needs to indicate all treatment levels. The collection reports will be required to report local data such as local usage, revenues in collections, etc.

9.10 Bill Production

Local bill feeds will be validated by the billing control office before AT&T processes it for bill pull. Back-out and re-run procedures need to be defined.

9.11 Bill Rate Inquiry

The biller needs to provide access to local call rating tables for inquiry and bill verification.

[REDACTED]

Local Service Marketing Service Description

DRAFT 2

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PLEASE NOTE: ALL CHANGES ARE UNDERLINED AND HAVE A LINE IN THE MARGIN

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11. Billing

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The LEC will record the customers local usage and forward it electronically to AT&T

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11.1 Features/Options To Support

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Initially Billing needs to support the following list of features/options, with the flexibility to charge and bundle elements in price packages:

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| FEATURE/OPTION | Non-Recurring Charge | Monthly Recurring Charge | Usage Charges |
|---|----------------------|--|---------------|
| Line Types: | | | |
| Basic Business Lines | X | X | Calling Plan |
| PBX Trunk Lines | X | X | Calling Plan |
| Direct Inward Dialing lines/trunks | X | X | |
| Direct Outward Dialing lines/trunks (DOD) | X | X | Calling Plan |
| <u>DS1 Nodal</u> <u>DS3 Nodal</u> | X | X (Mileage based, Channel termination, interoffice Channel charge) | X |
| DS1-Nodal | X | X (Mileage-based, Channel-termination, interoffice Channel charge) | X |
| DID numbers (per 100) | | X | |
| FCC Line Charges | | X | |
| Switched Digital Services | X | X | X |
| Tie Lines | X | X (Mileage based, Channel termination, interoffice Channel charge) | |
| FX Service | X | X (Mileage based, Channel termination, interoffice Channel charge) | X |
| Off Premises Extensions | X | X (Mileage based, Channel termination, interoffice Channel charge) | |

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|----|---------------------------------|-----------------|---|---|
| 2 | Call Transfer | X | X | |
| 3 | Call Tracing | X | X | |
| 4 | Priority Call Ringing | X | X | |
| 5 | Customized/Distinctive Ringing | X | X | |
| 6 | Automatic Route Selection | X | X | |
| 7 | Automatic Identified Outward | X | X | |
| 8 | Dialing | | | |
| 9 | Network Call Distribution | X | X | |
| 10 | ISDN (With associated features) | X | X | X |
| 11 | CENTREX (With associated | X | X | |
| 12 | features) | | | |
| 13 | Voice Mail | X | X | |
| 14 | Alarm Circuits | X | X | X |
| 15 | 800 Service | X | X | X |
| 16 | Local Teleconferencing | X | X | X |
| 17 | Local Calling Card | X | X | X |
| 18 | Miscellaneous: | | | |
| 19 | Change Charge (Plan Change) | X | | |
| 20 | Maintenance Charges | Based on | | |
| 21 | | Minutes | | |
| 22 | Inside Wiring | X | | |
| 23 | Non-Published Listing | X | X | |
| 24 | Vanity Number | | X | |
| 25 | White Page Listing | Comes with line | | |
| 26 | Yellow Page Listing | | X | |

27 **Bold Items are currently defined for July 1995 development (Except for Uniplan Calling**
28 **Plans)**

29 [REDACTED]

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Rqmts DRAFT 2

AT&T Proprietary (Restricted)
Solely for the authorized persons having a need to know
pursuant to Company instructions

200204



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Rqmms DRAFT 2

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pursuant to Company instructions

200208

**Local Directory Assistance
Technical Plan**

**For a 411 Call
with
Mixed Local & Long Distance Queries**

Draft 1

Version 1.1

March 8, 1996

Coordinator: L. C. Mui

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200398

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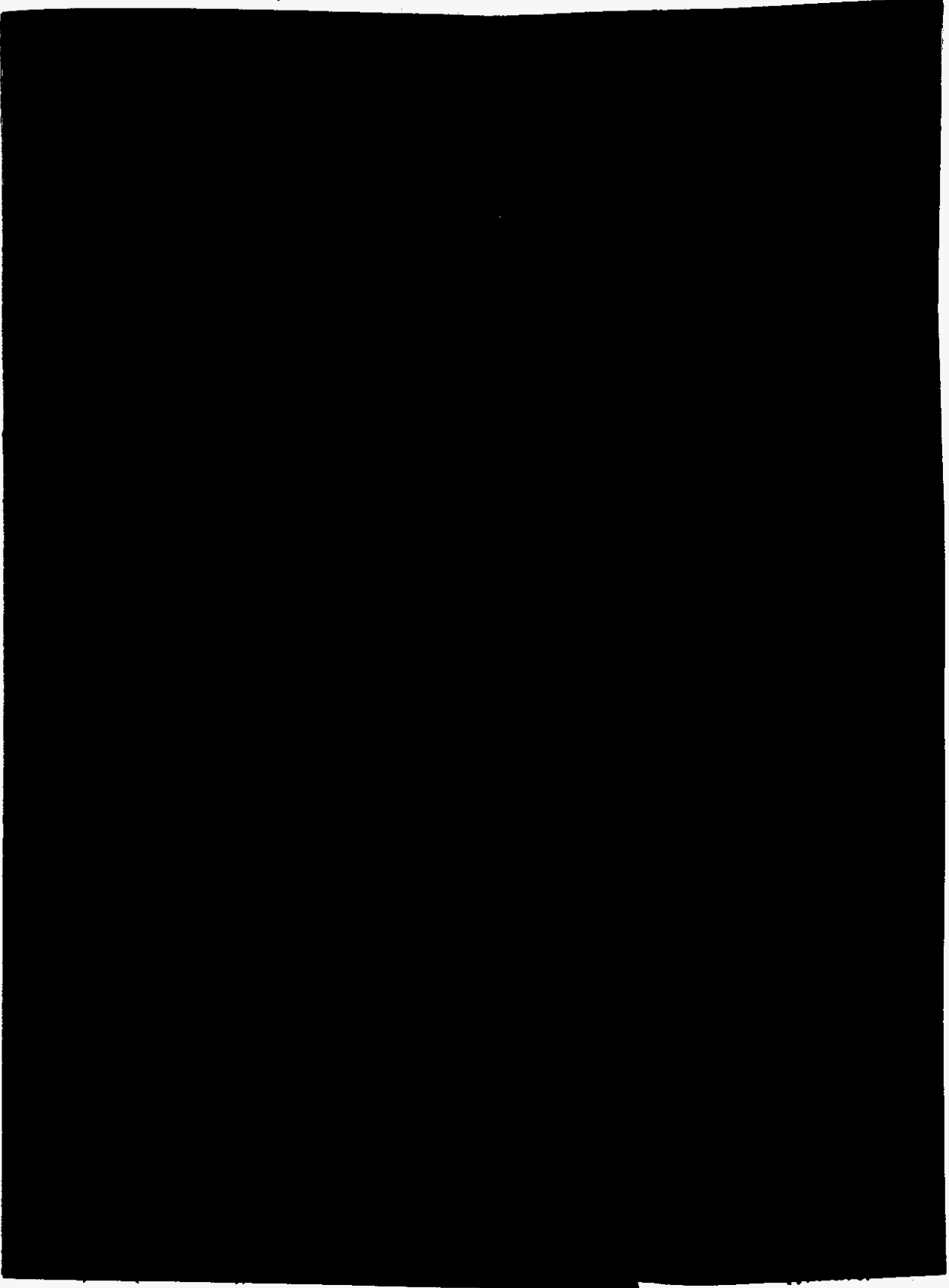
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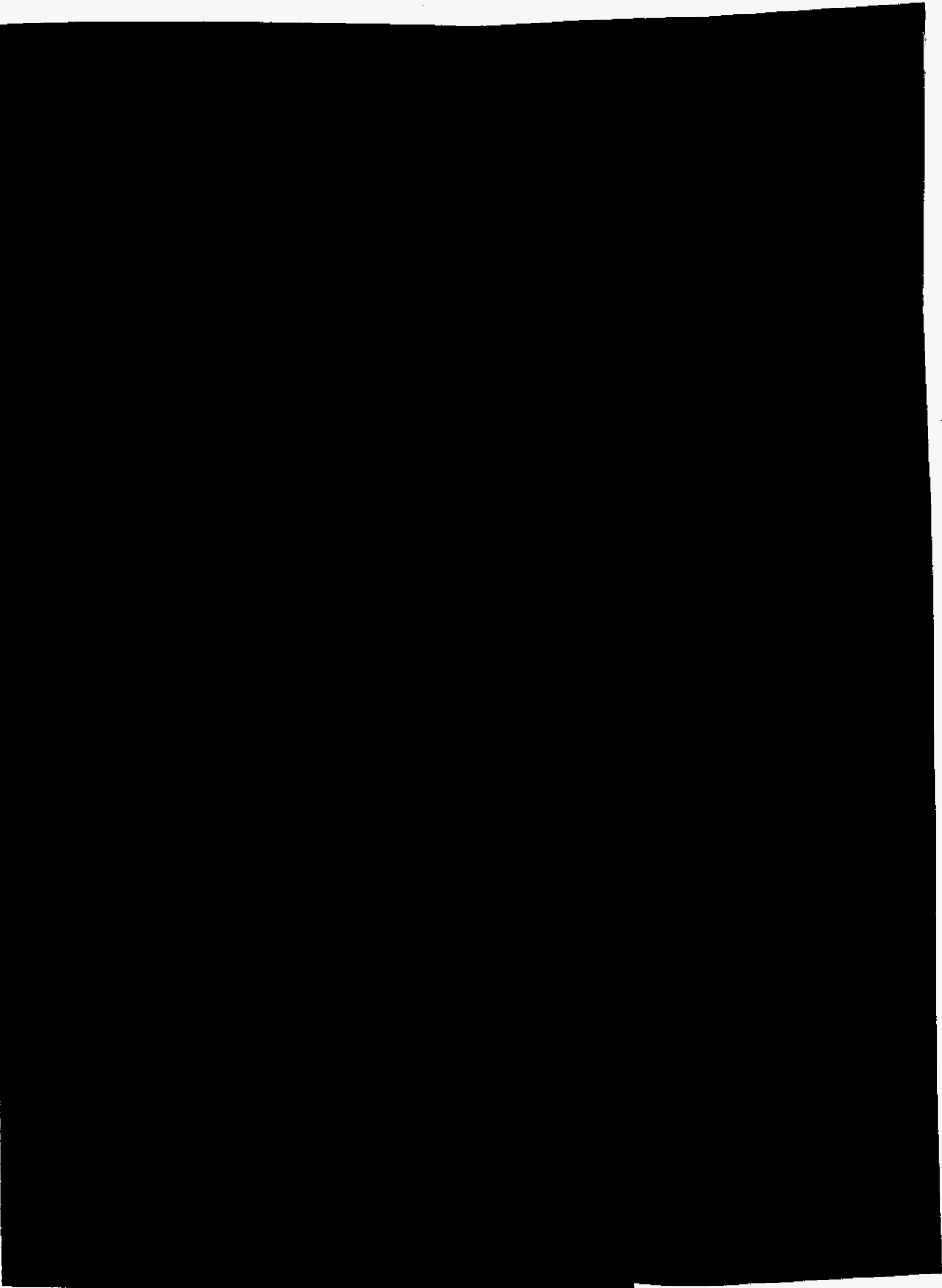
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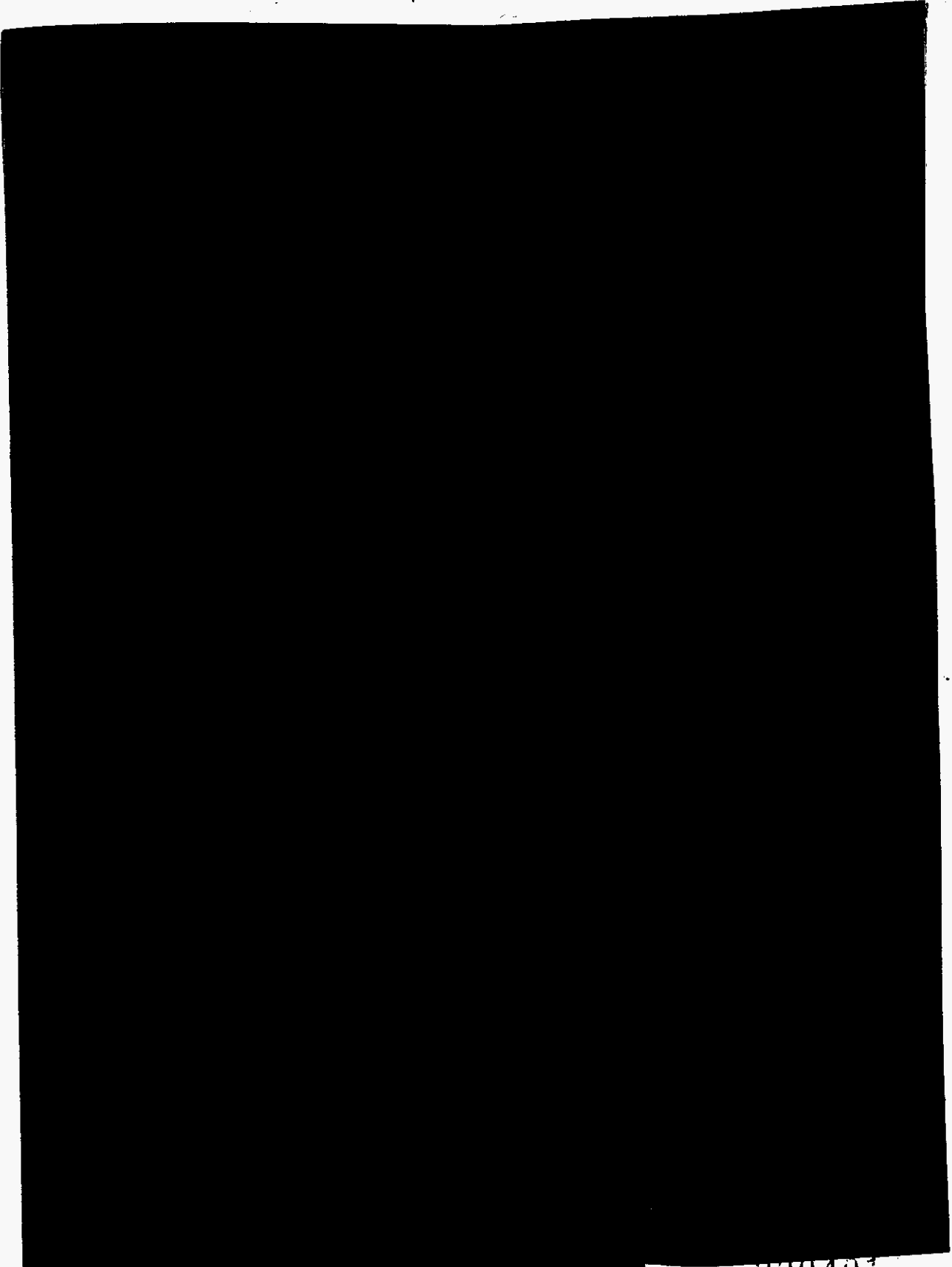
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Data provided by N.E. Higgs, Guilford, F. Higgs, ...

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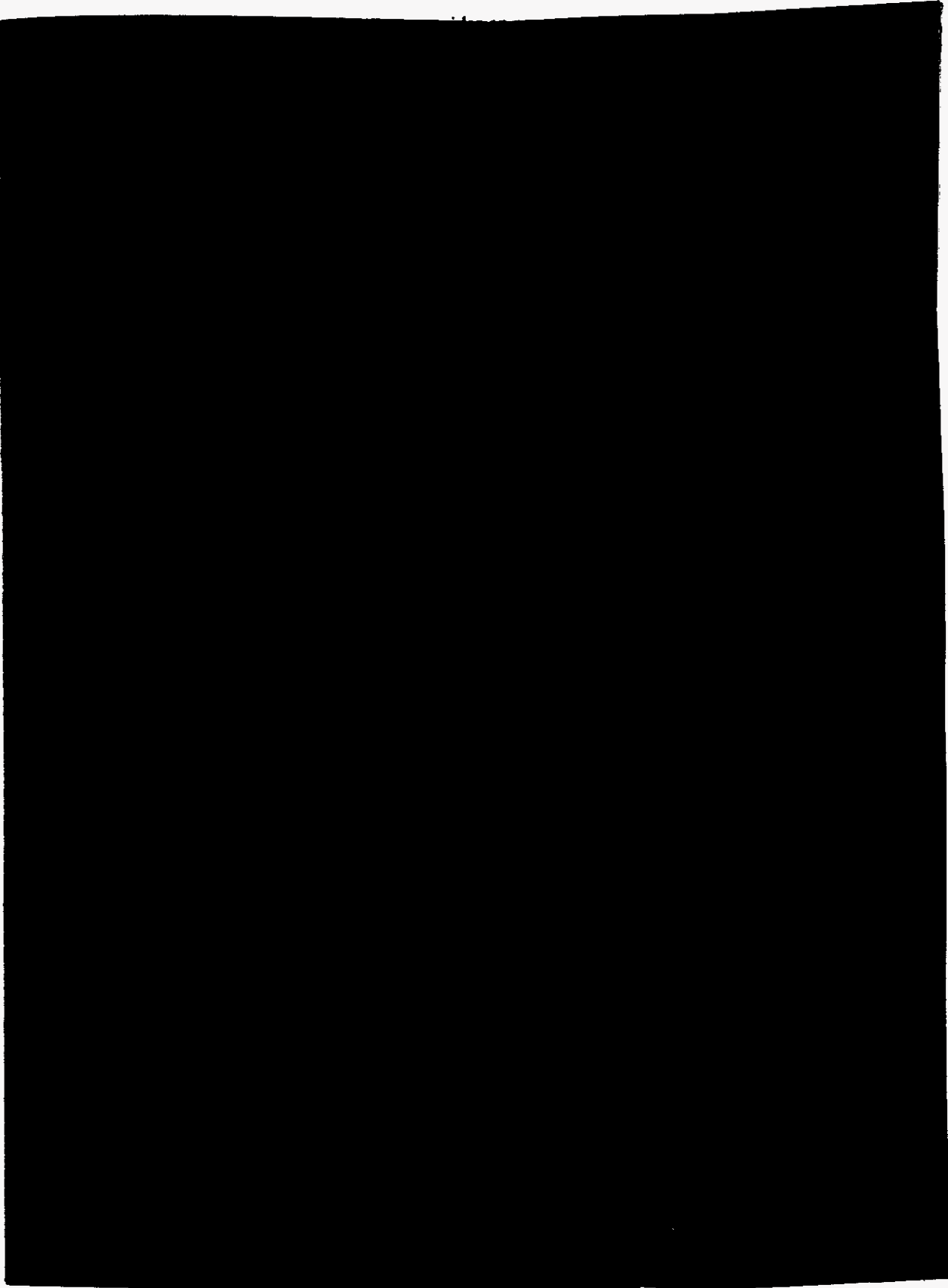
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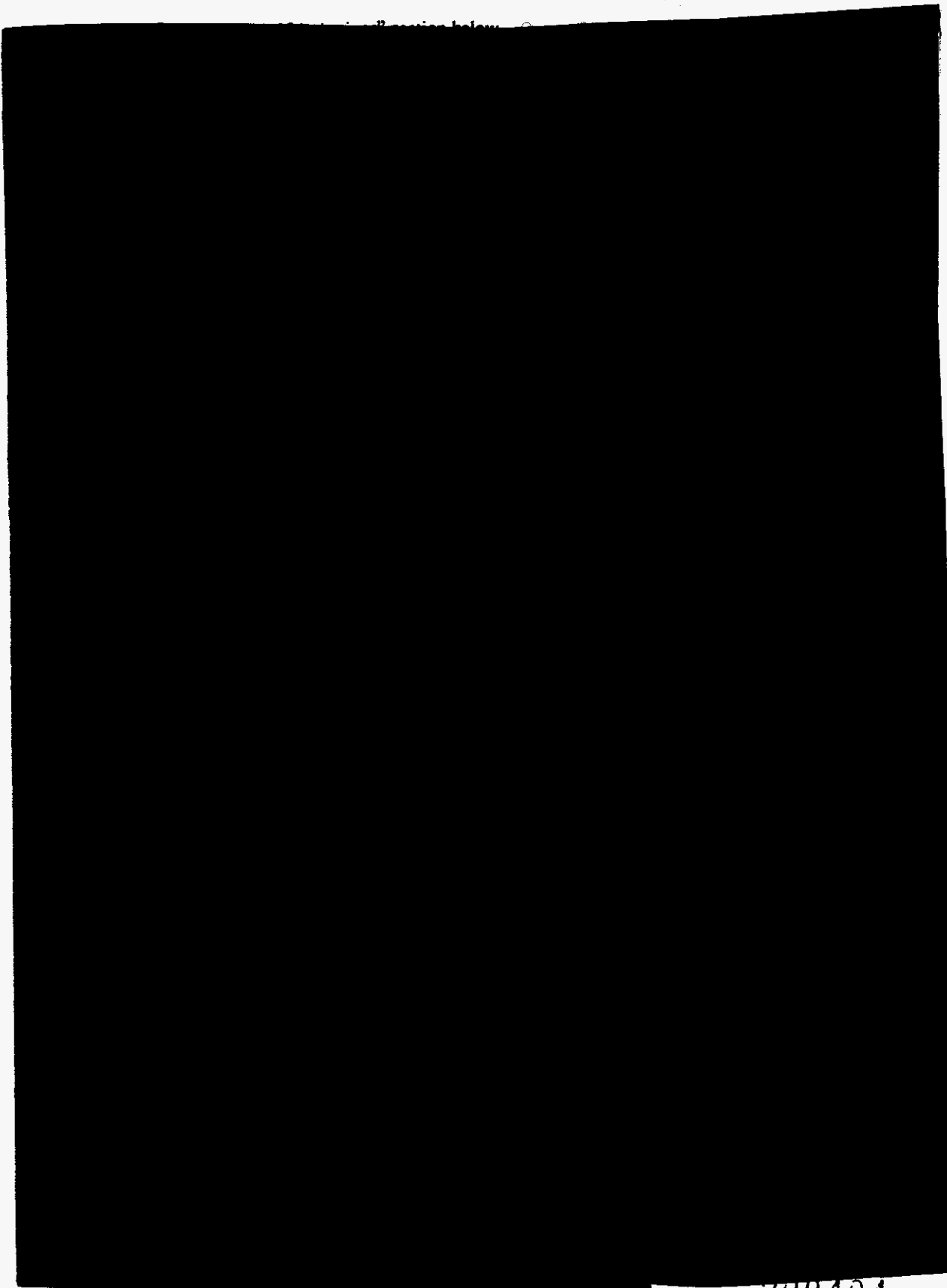


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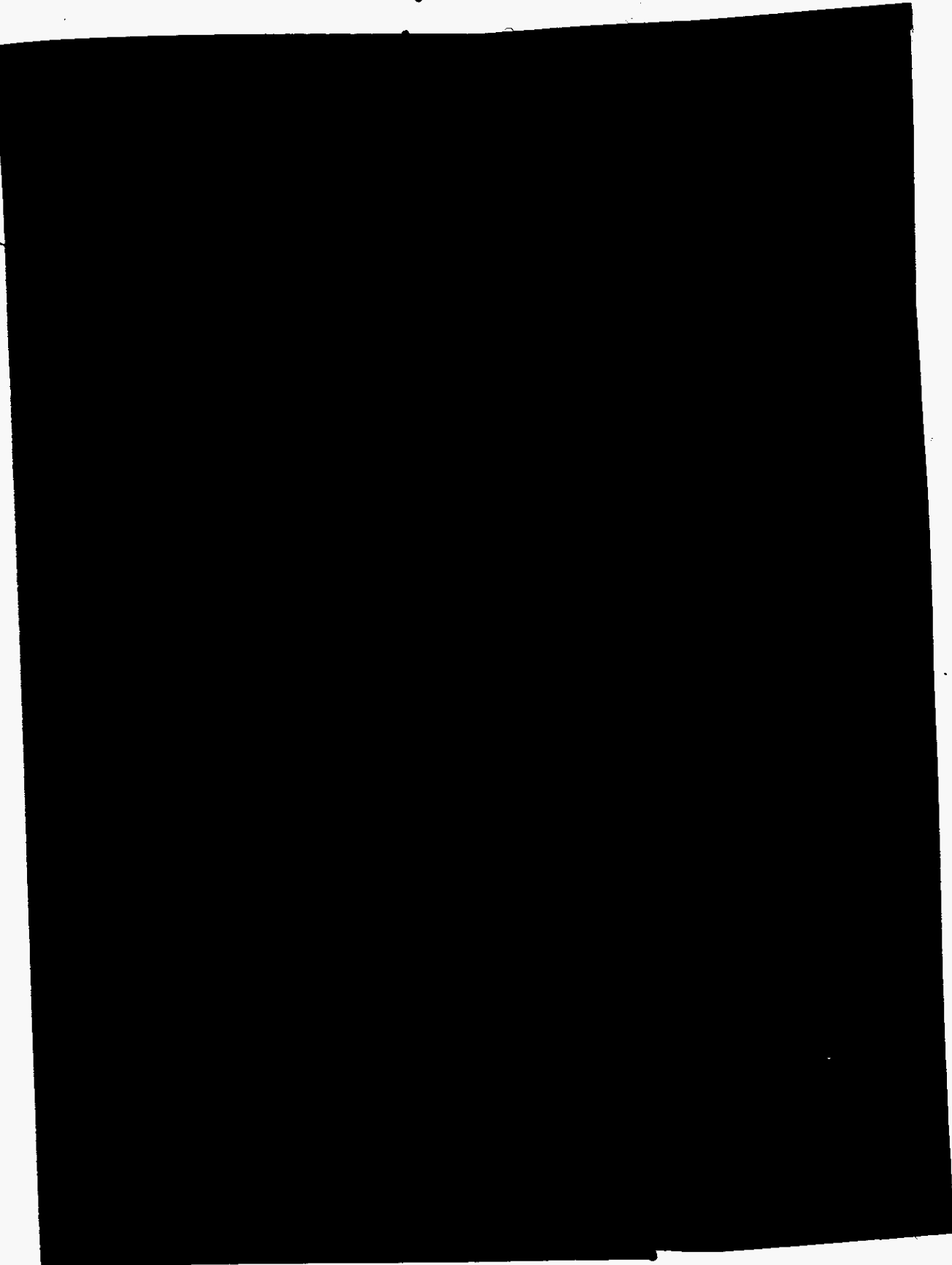
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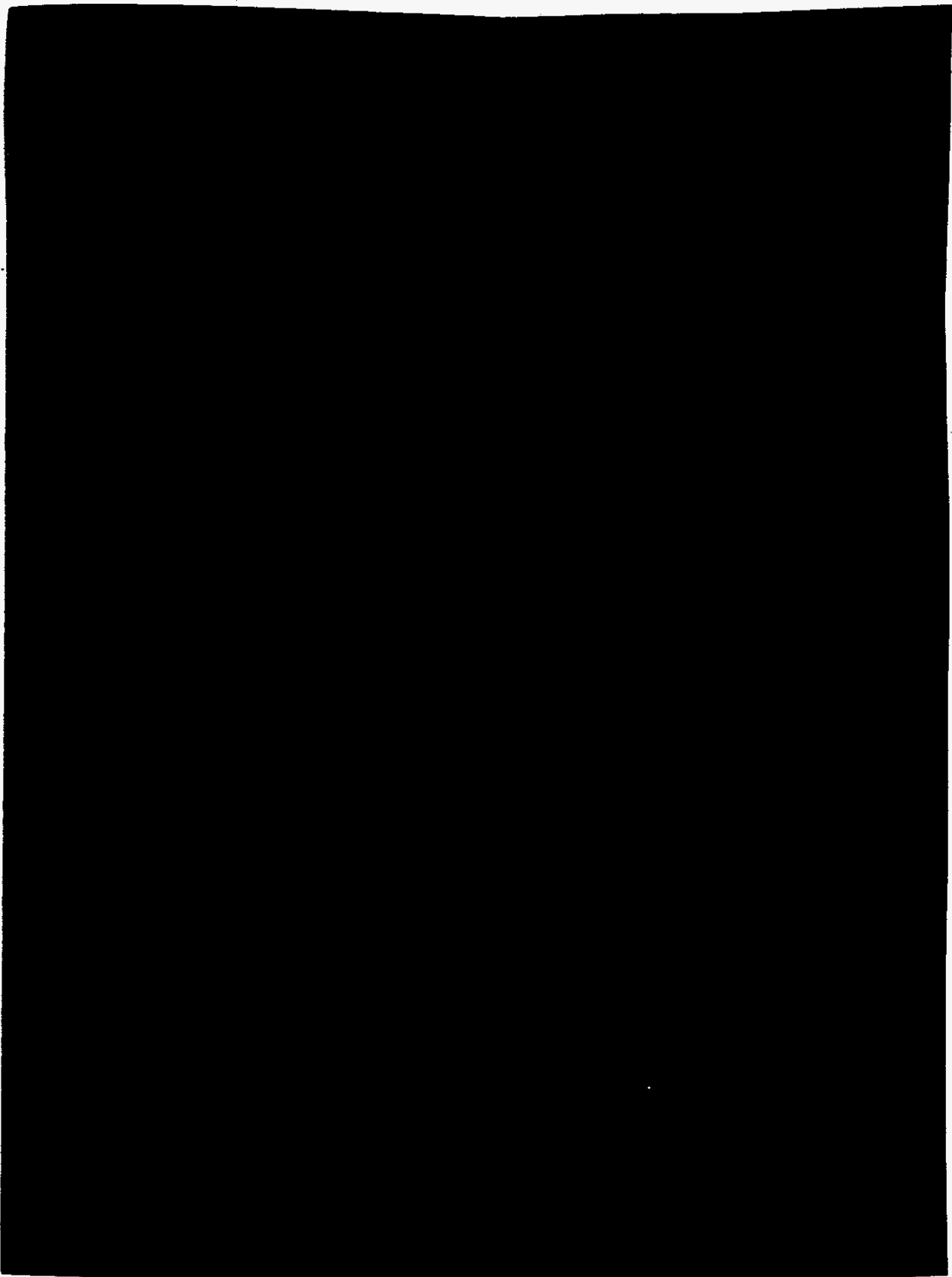
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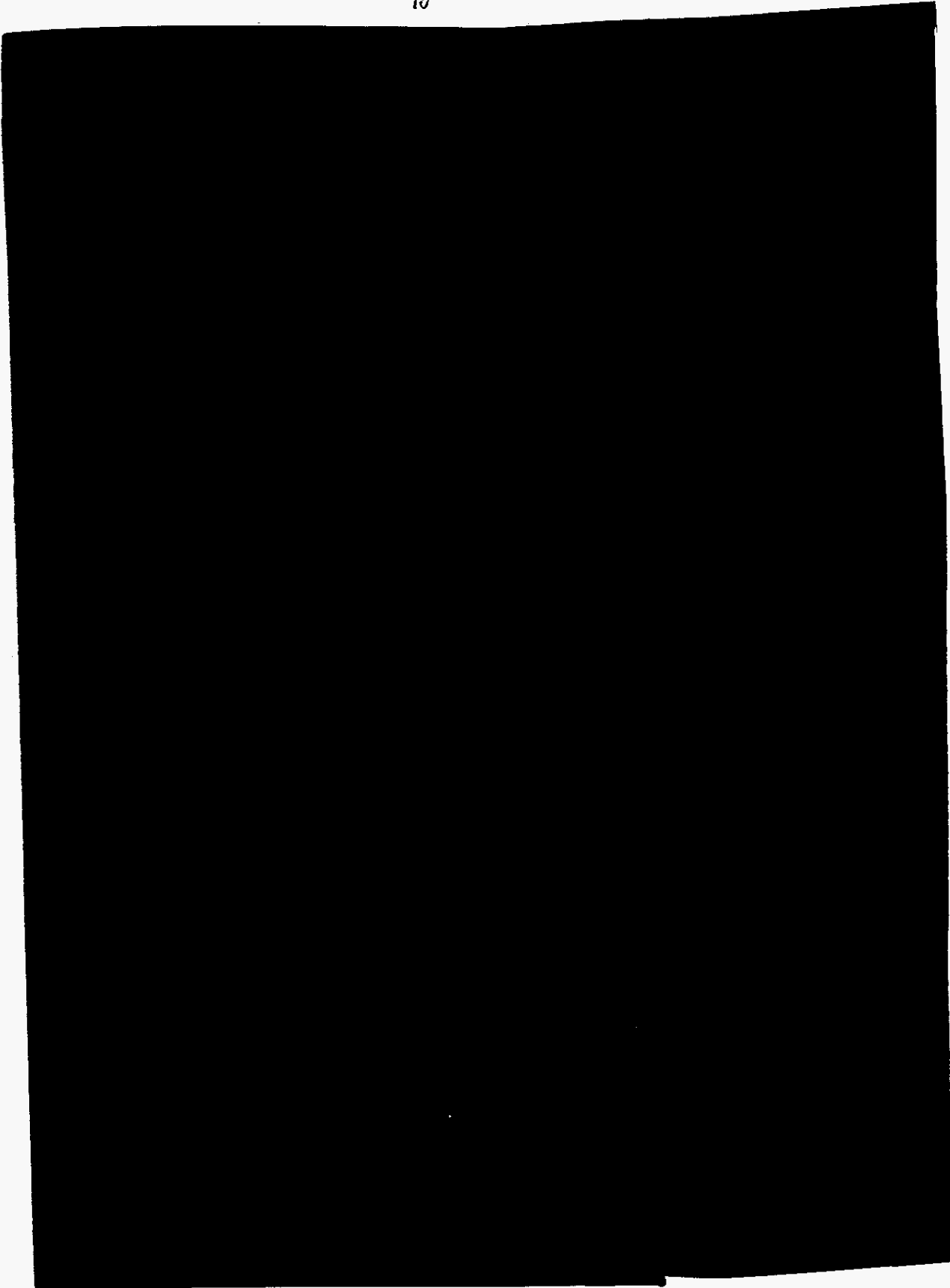
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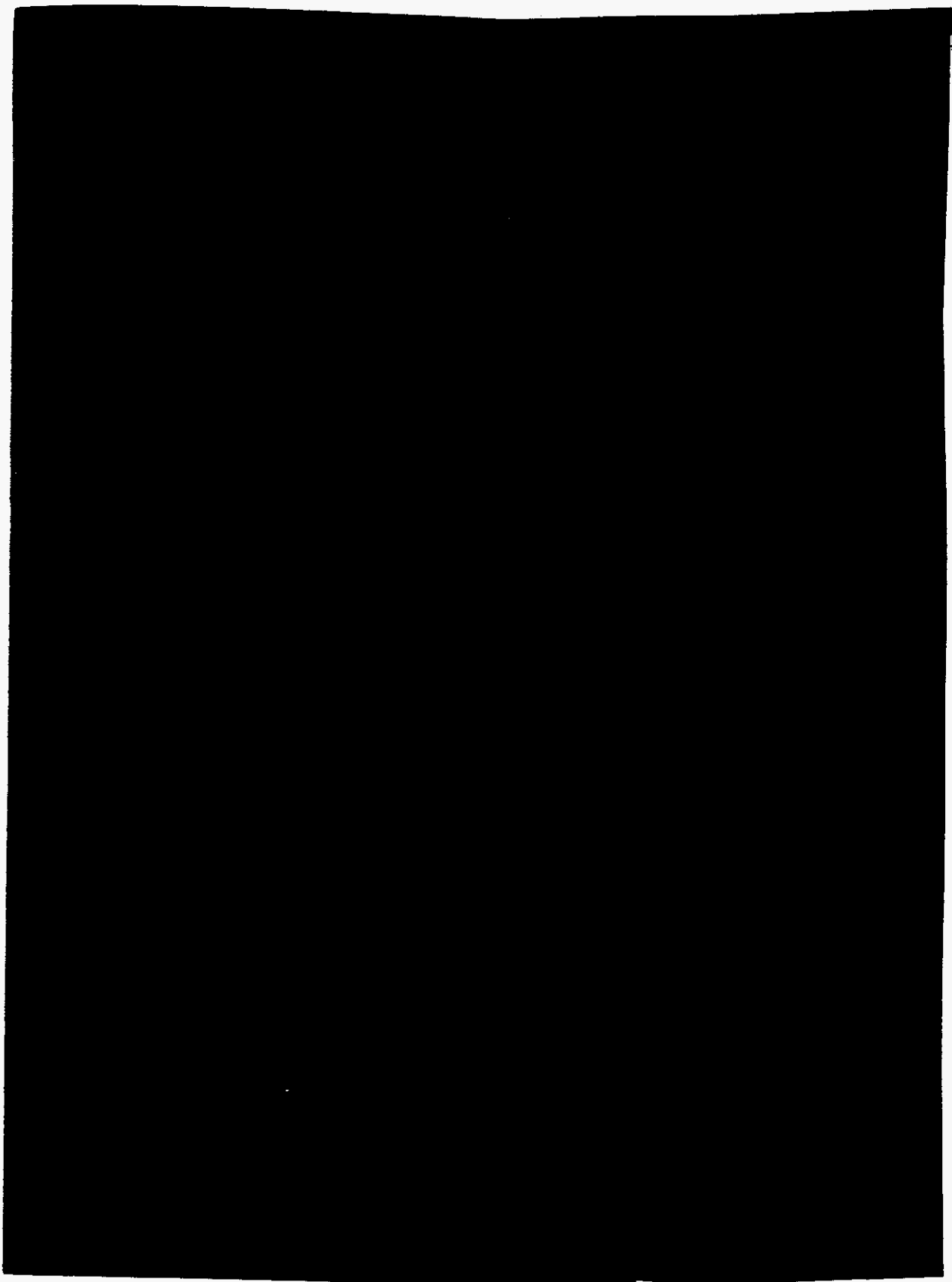
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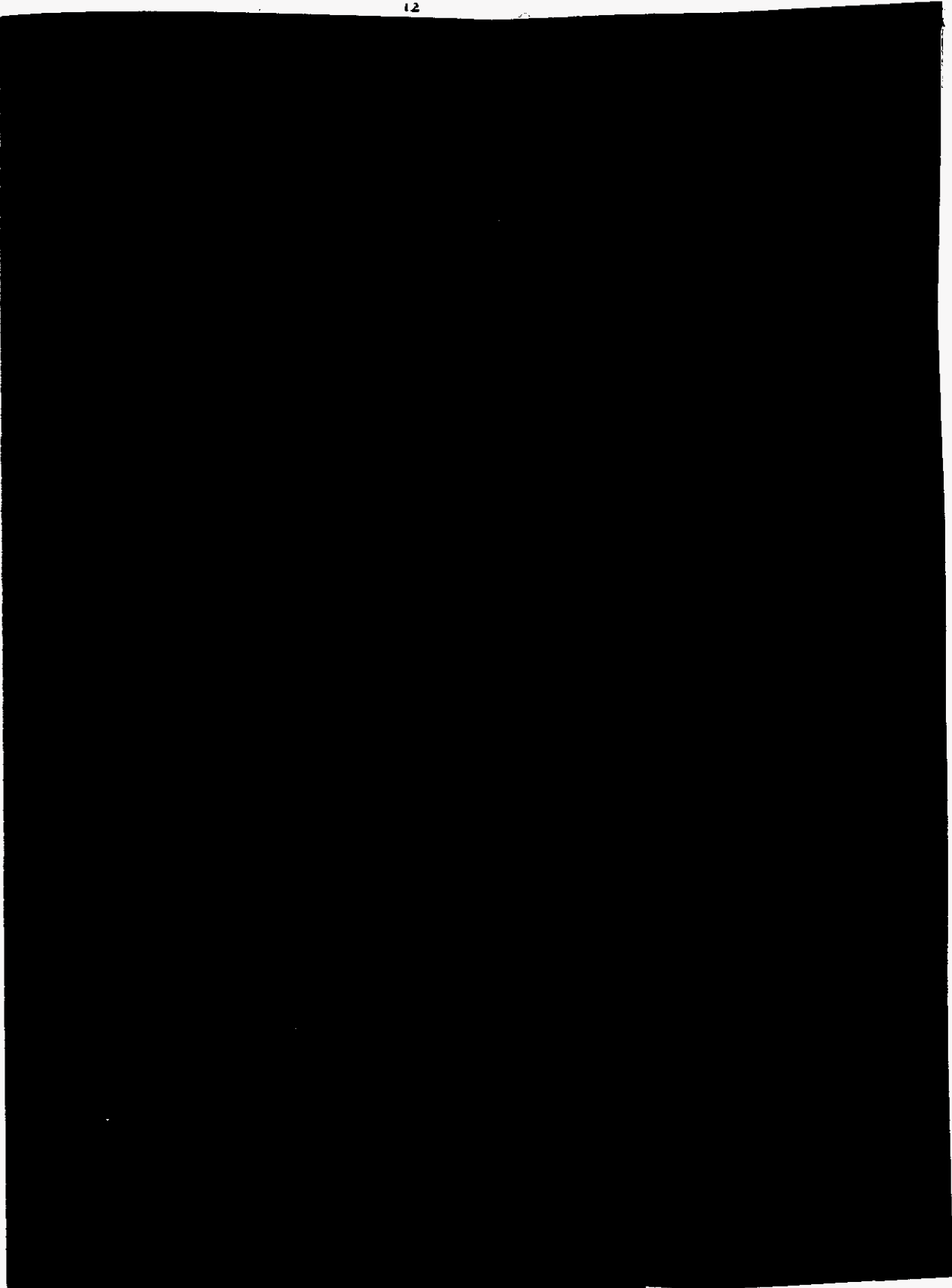
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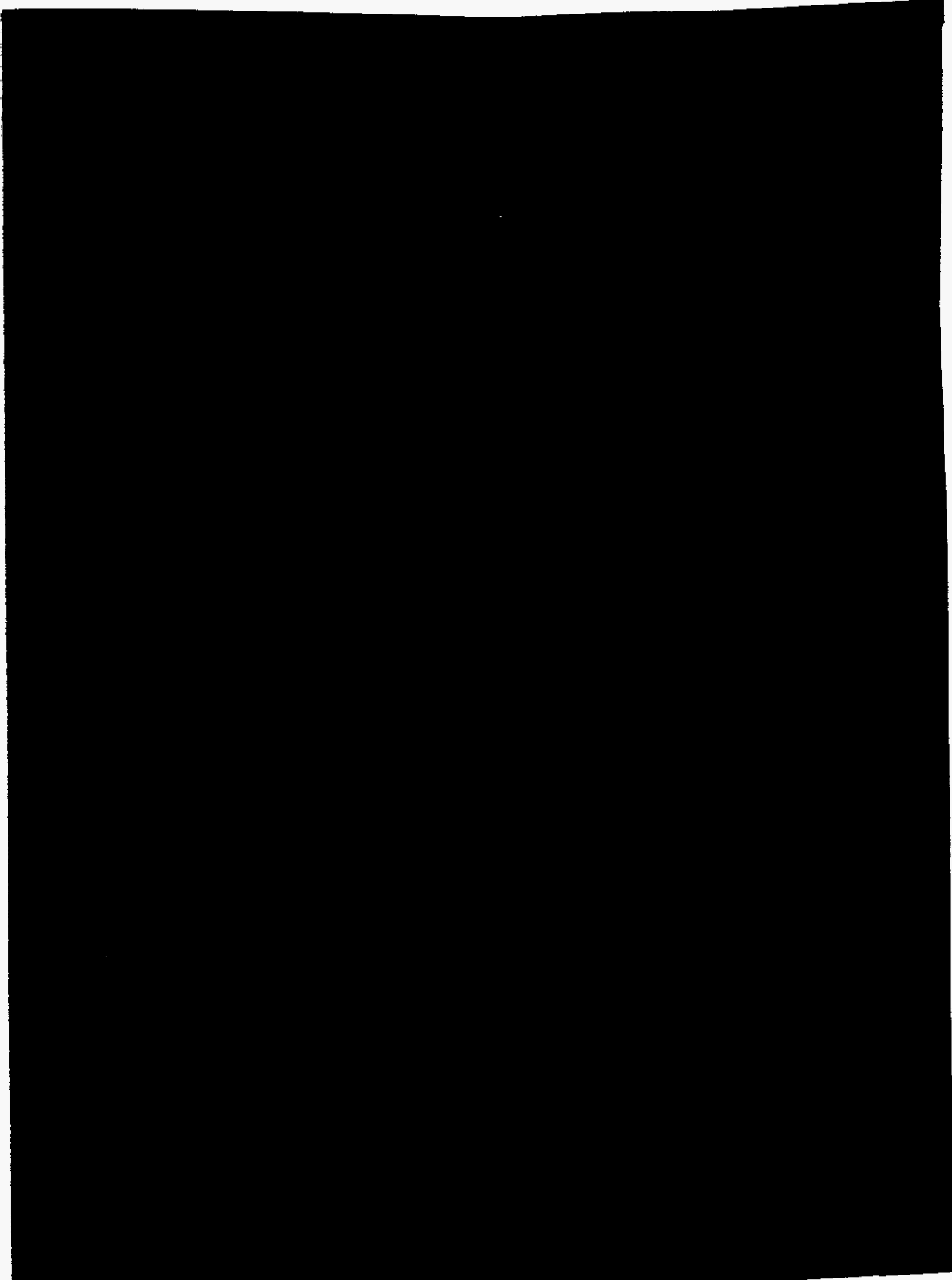
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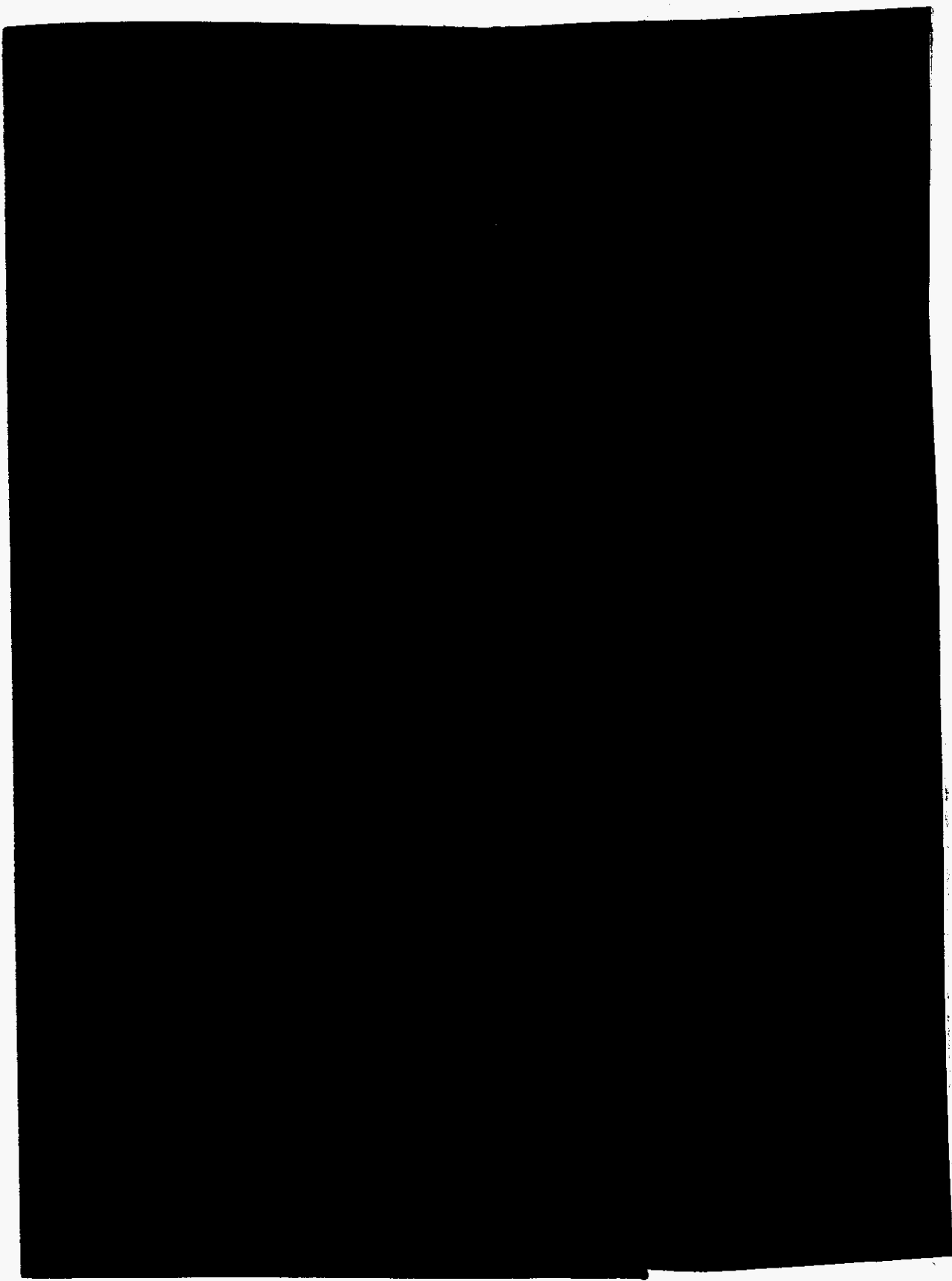
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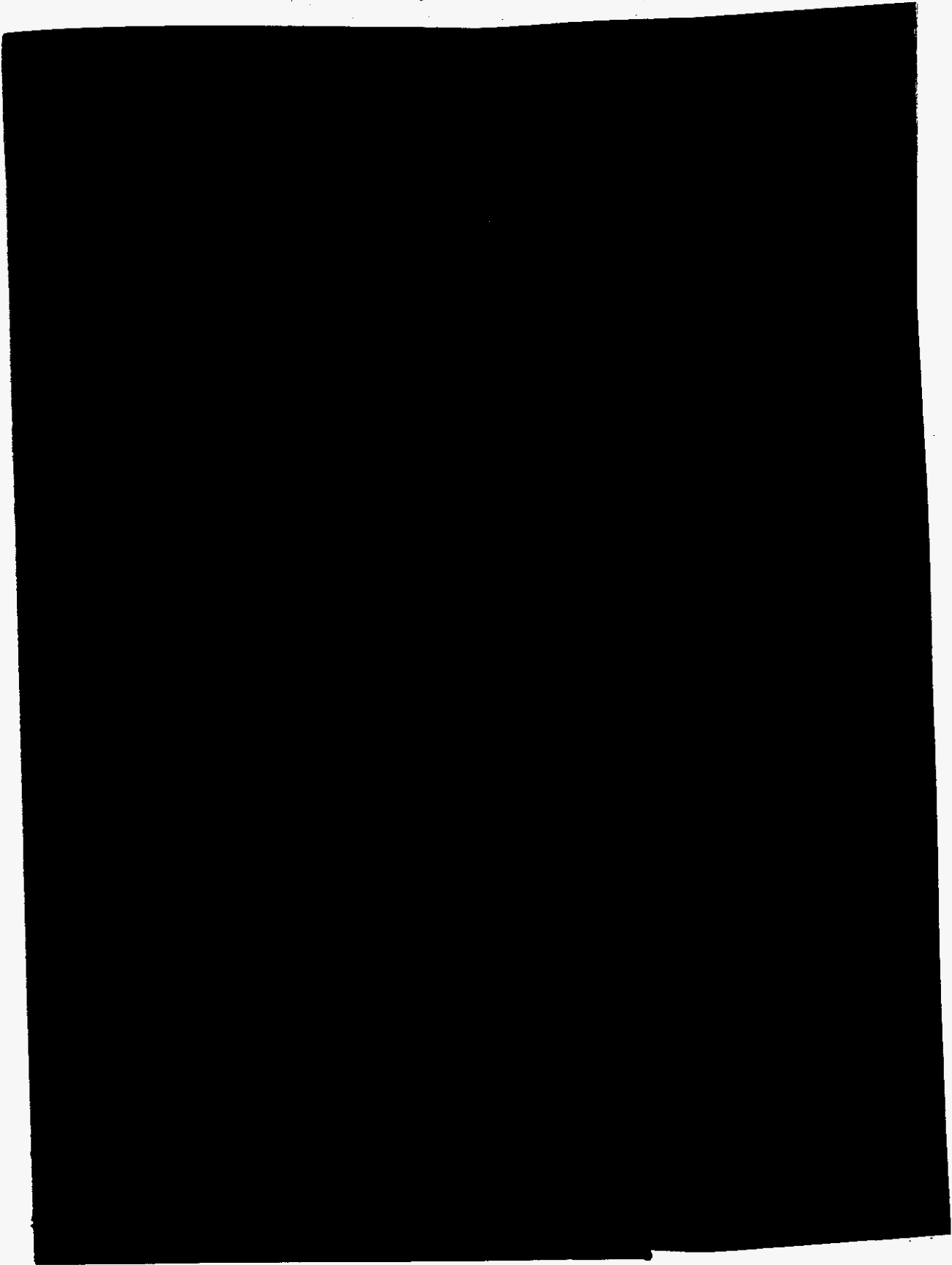
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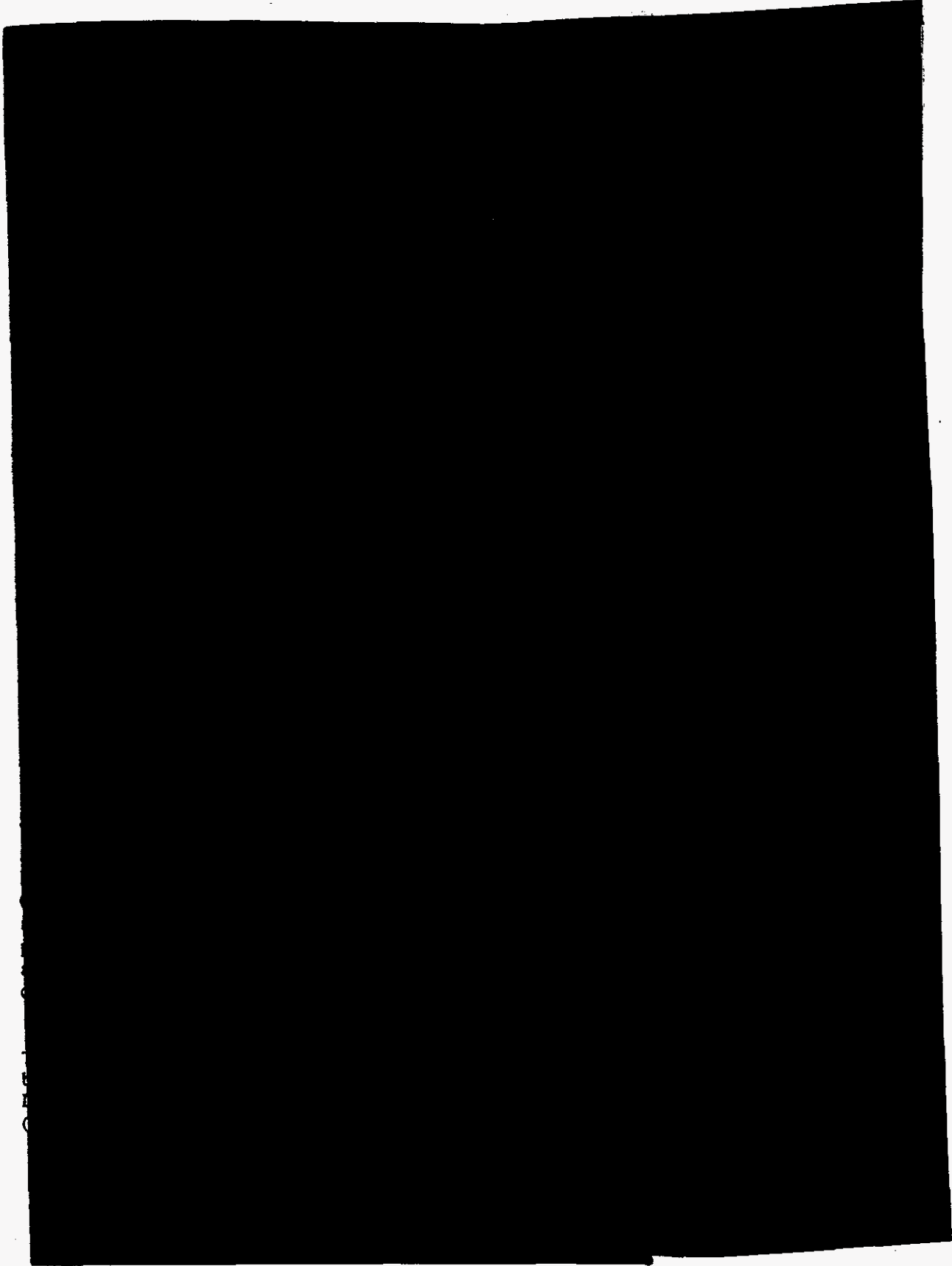
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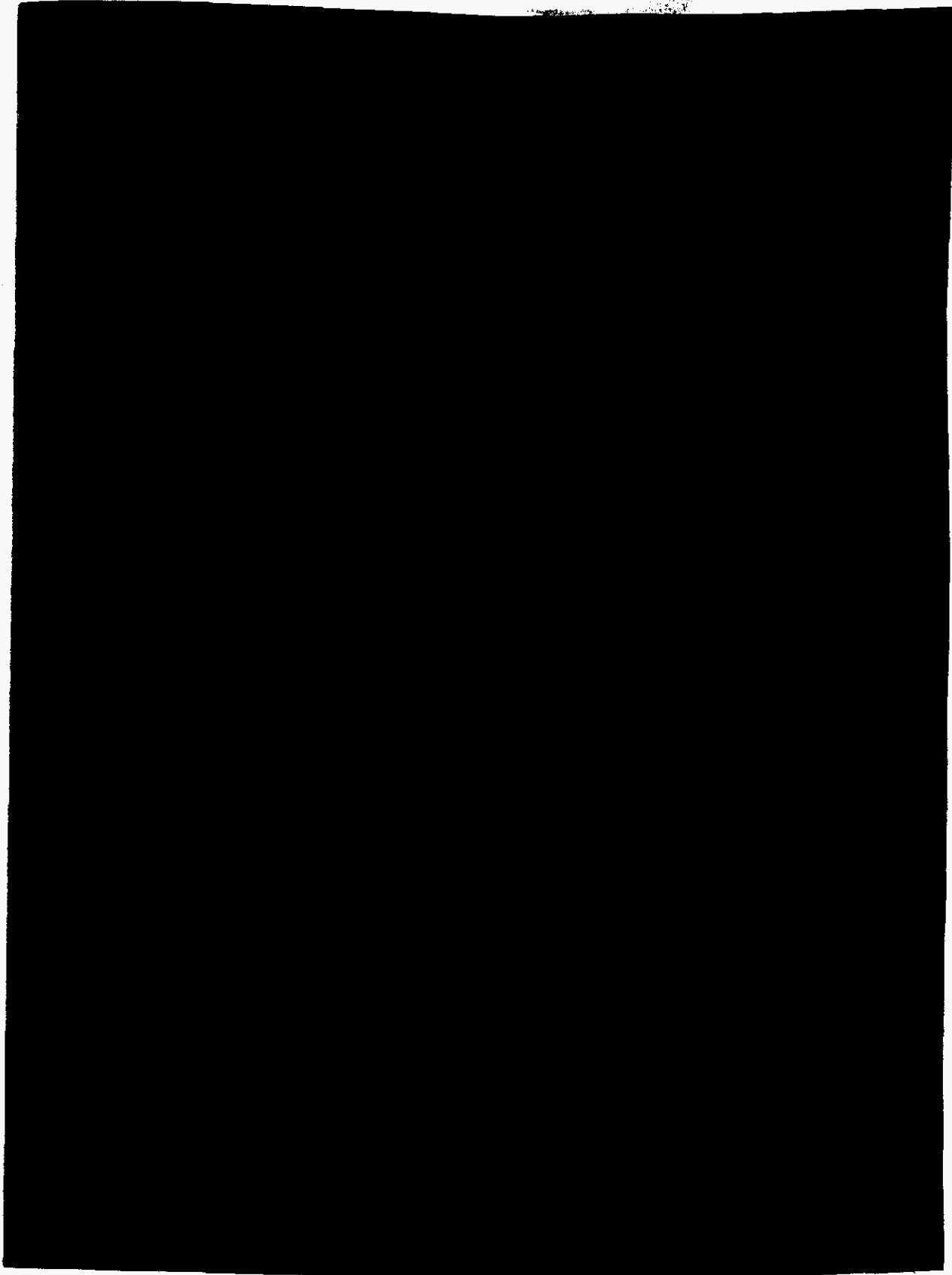
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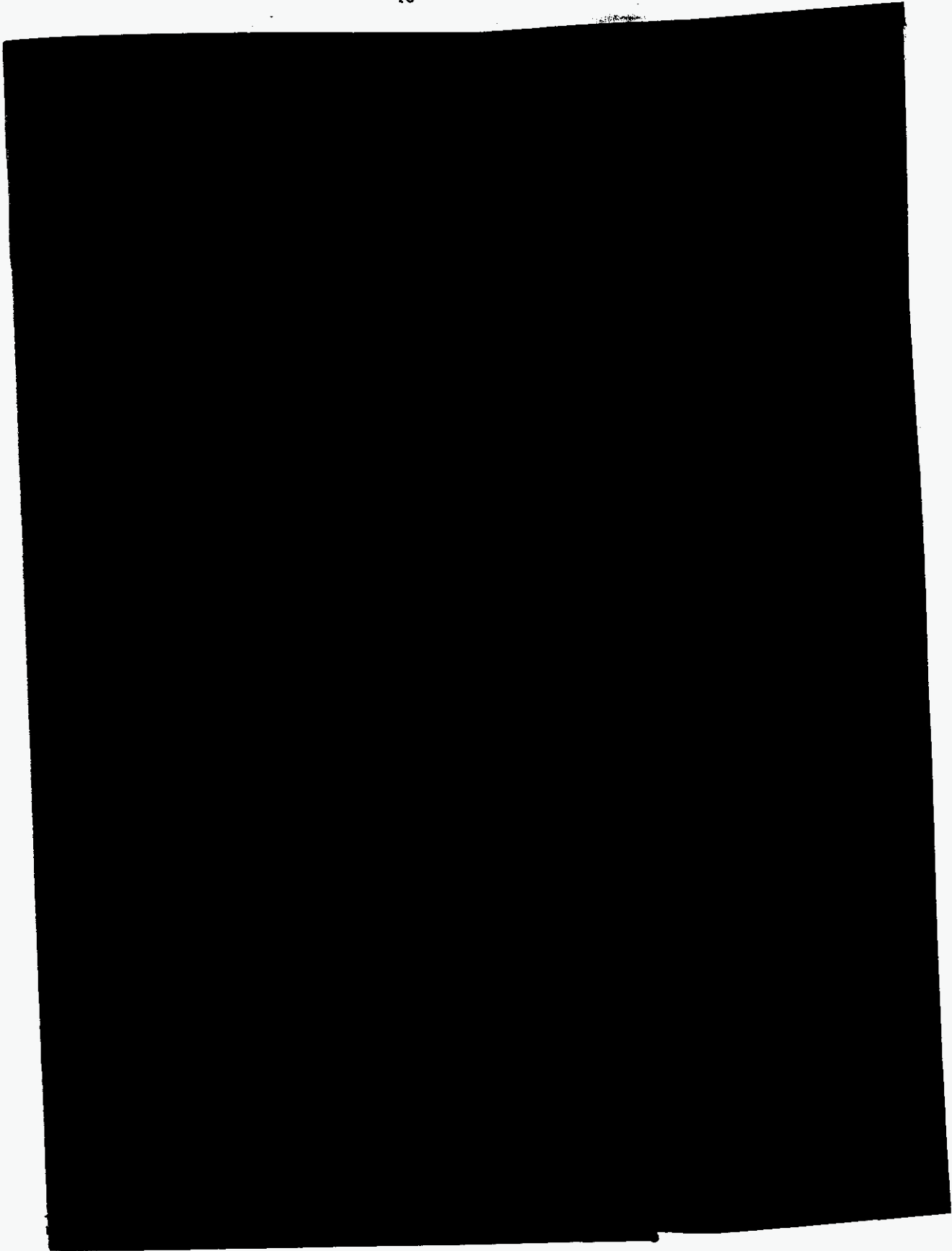
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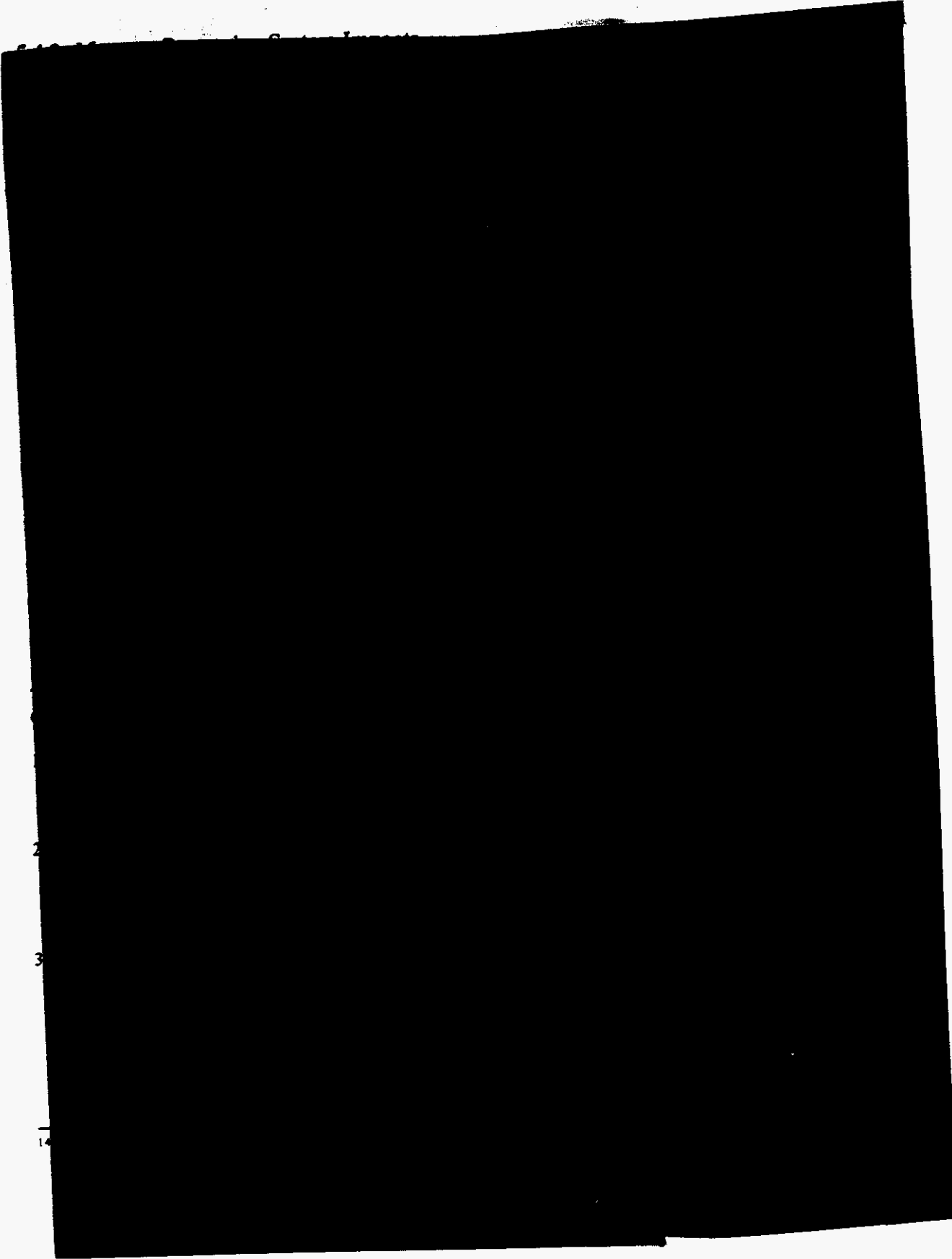
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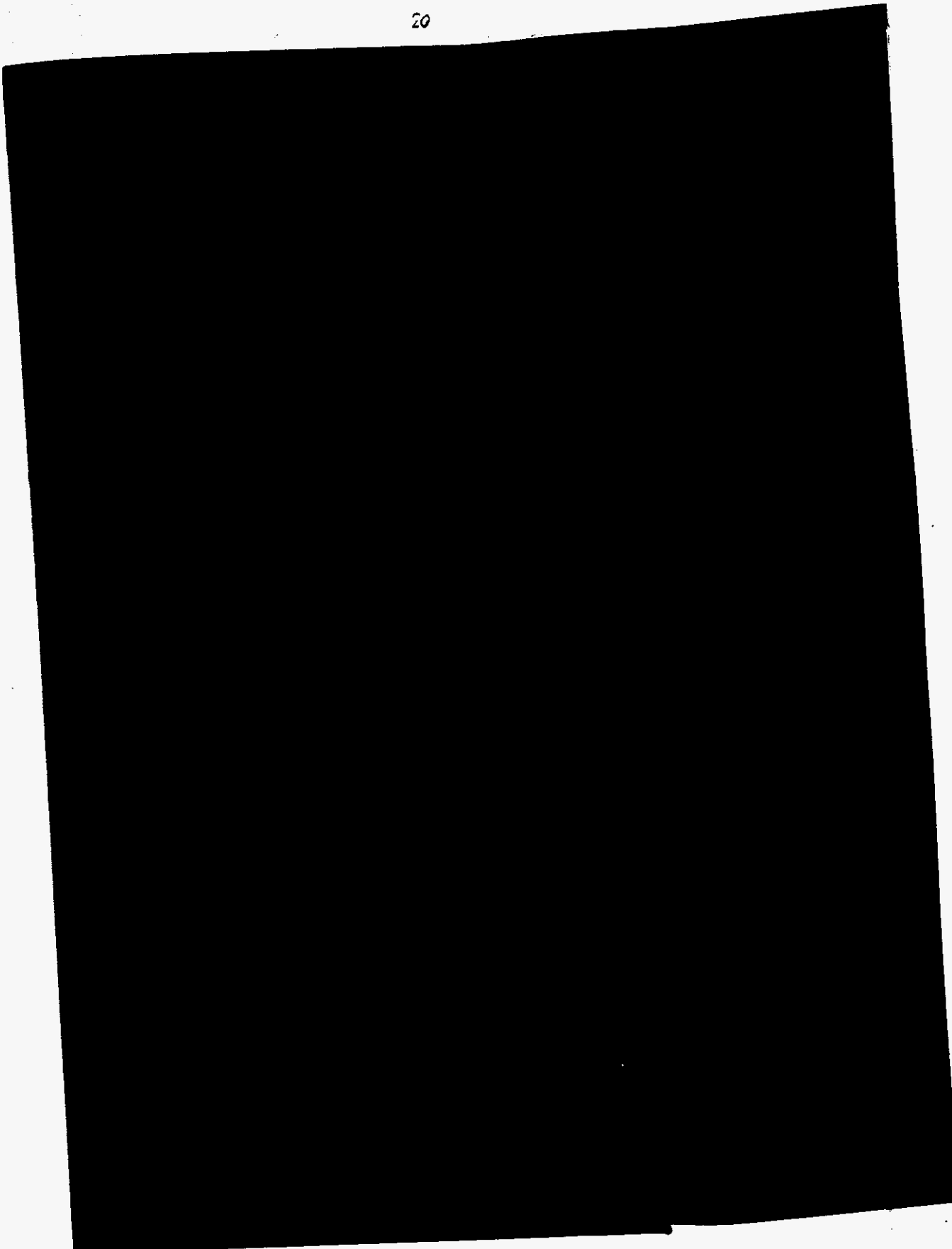
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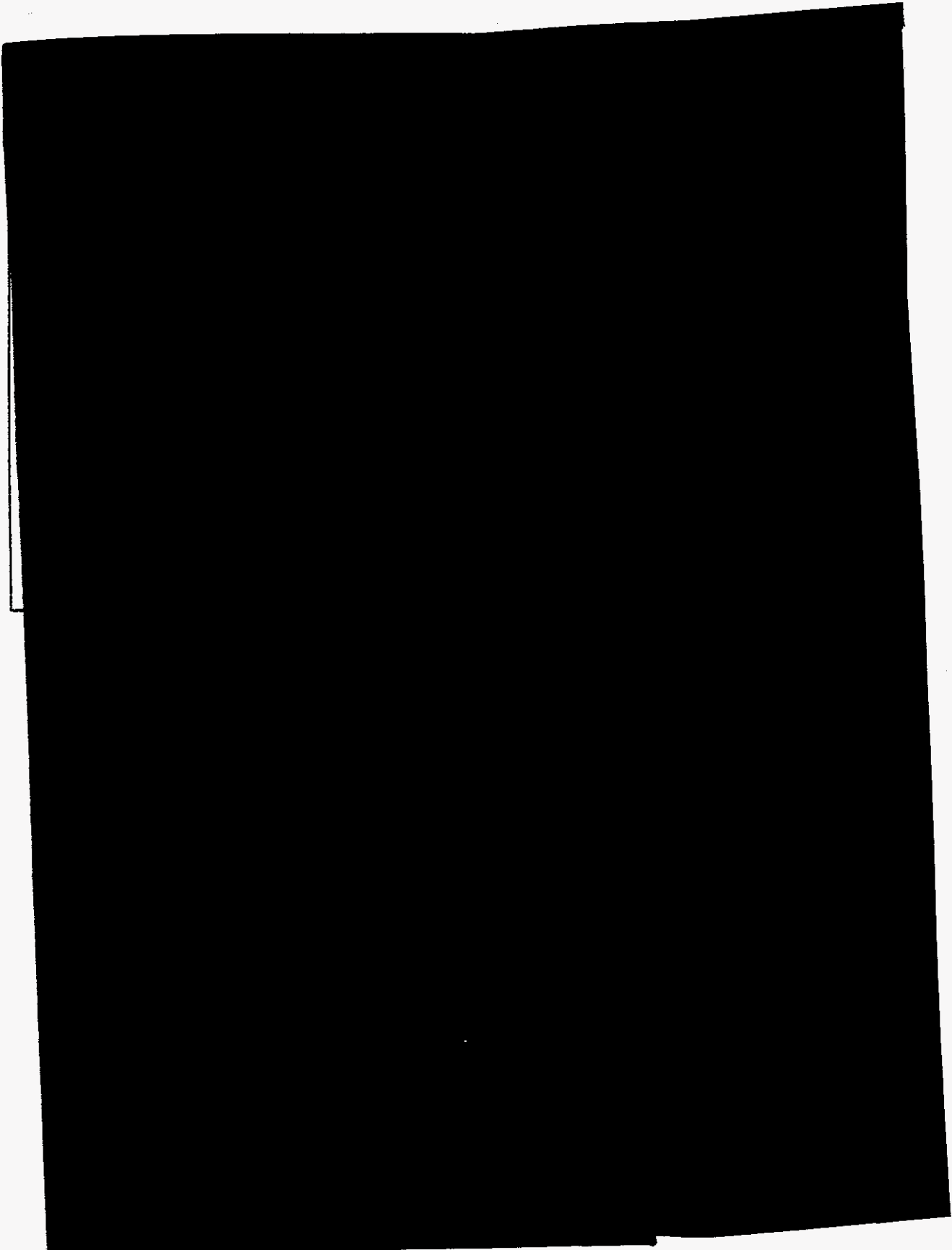
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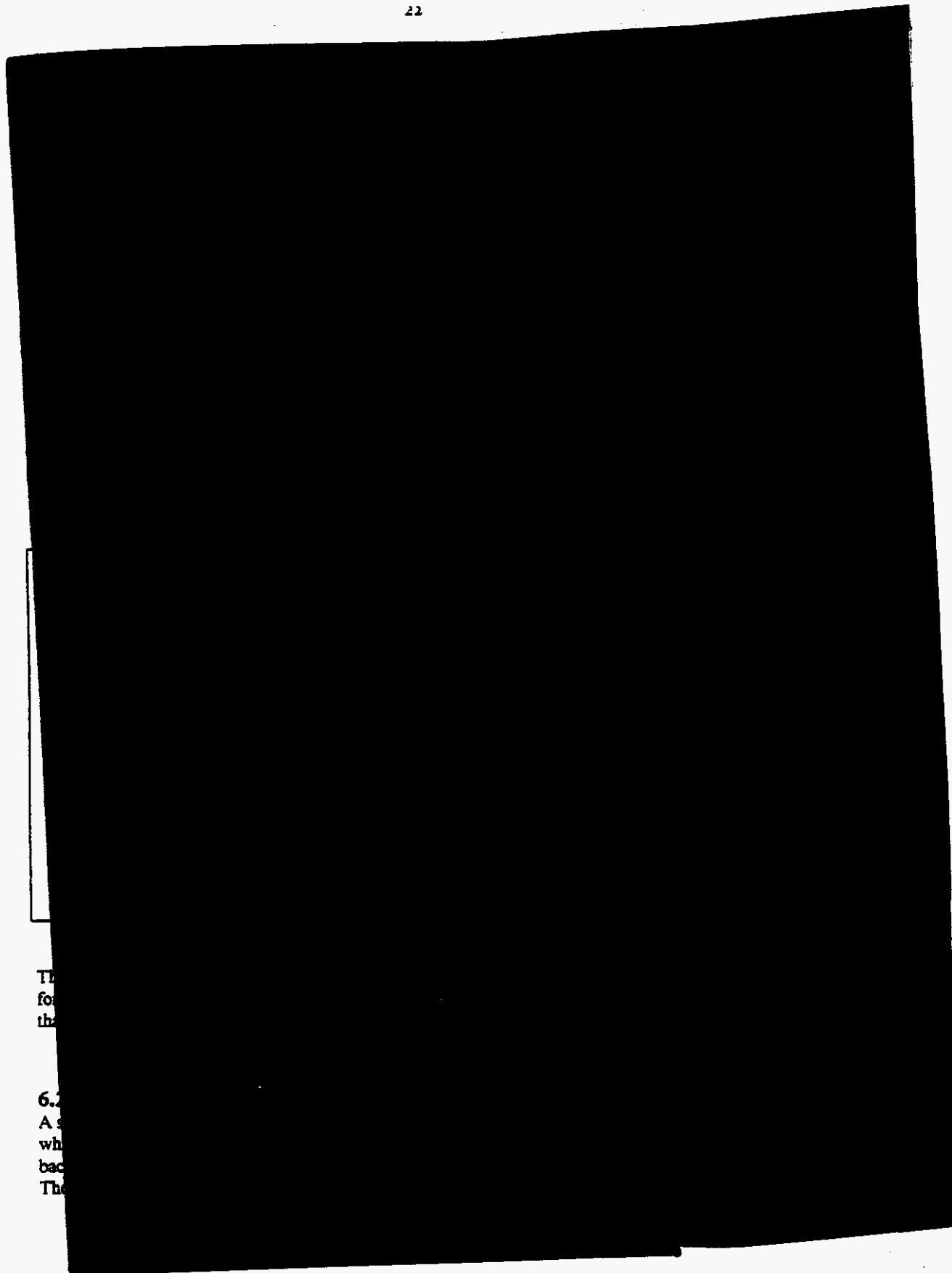
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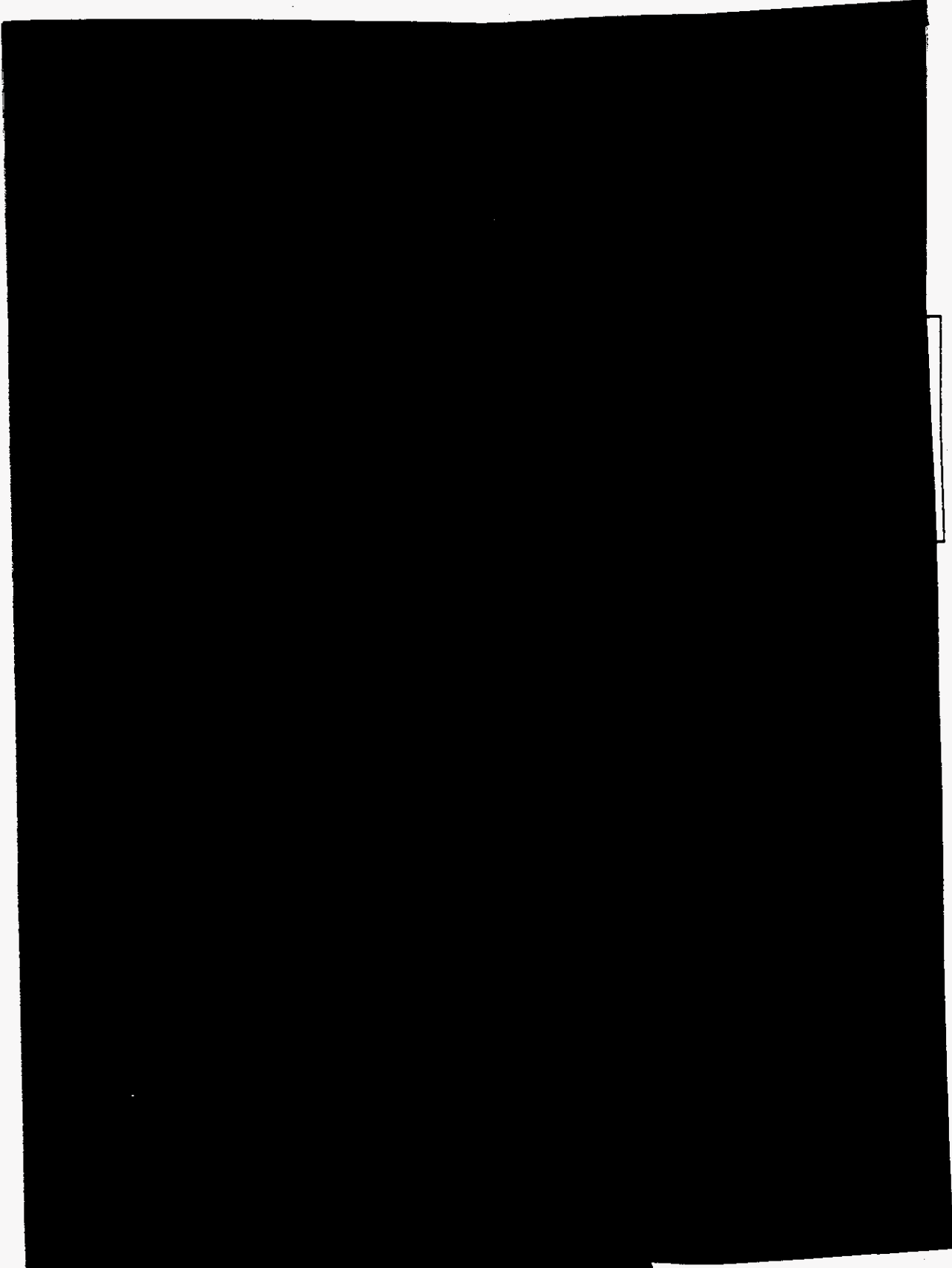
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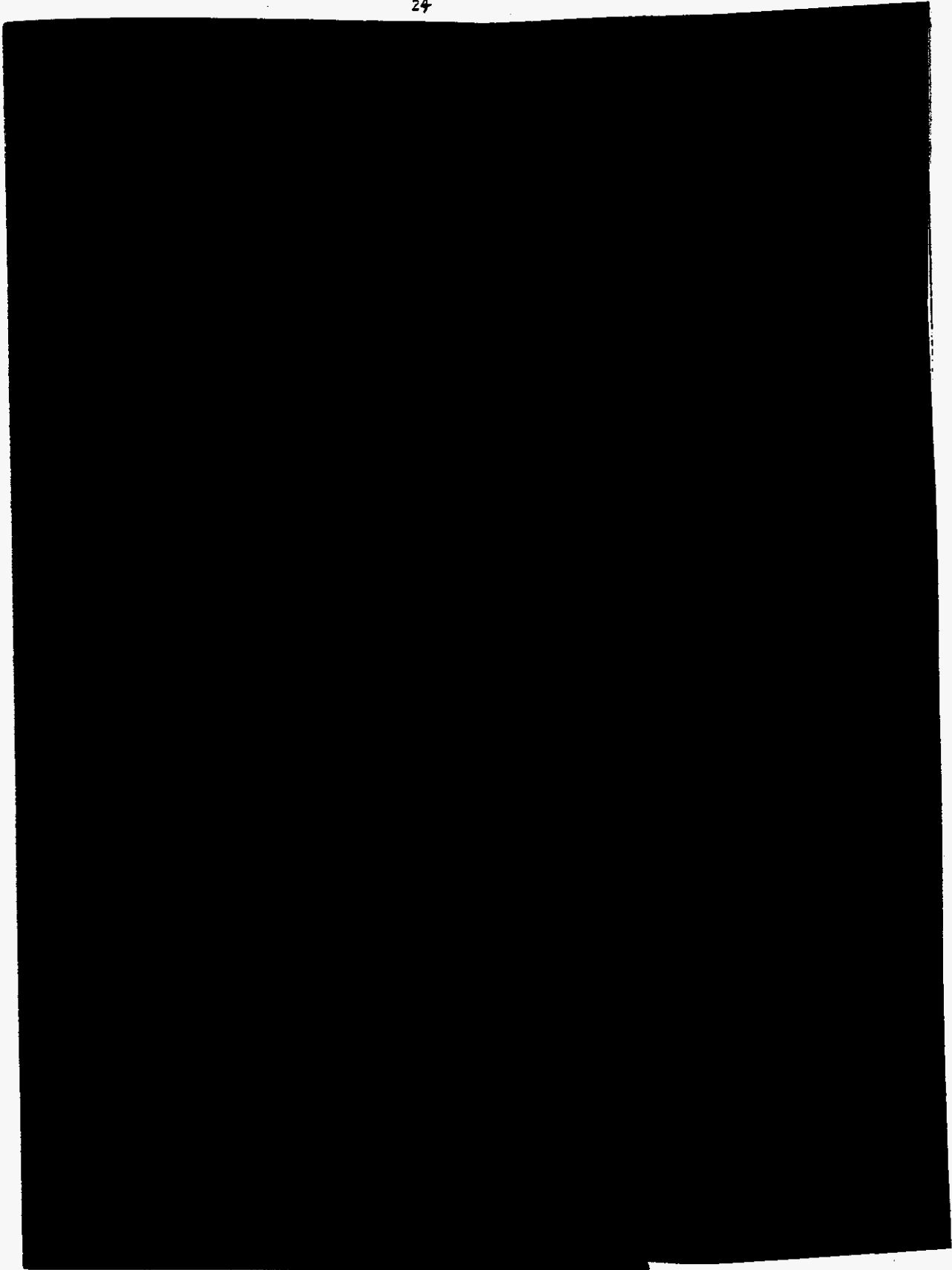
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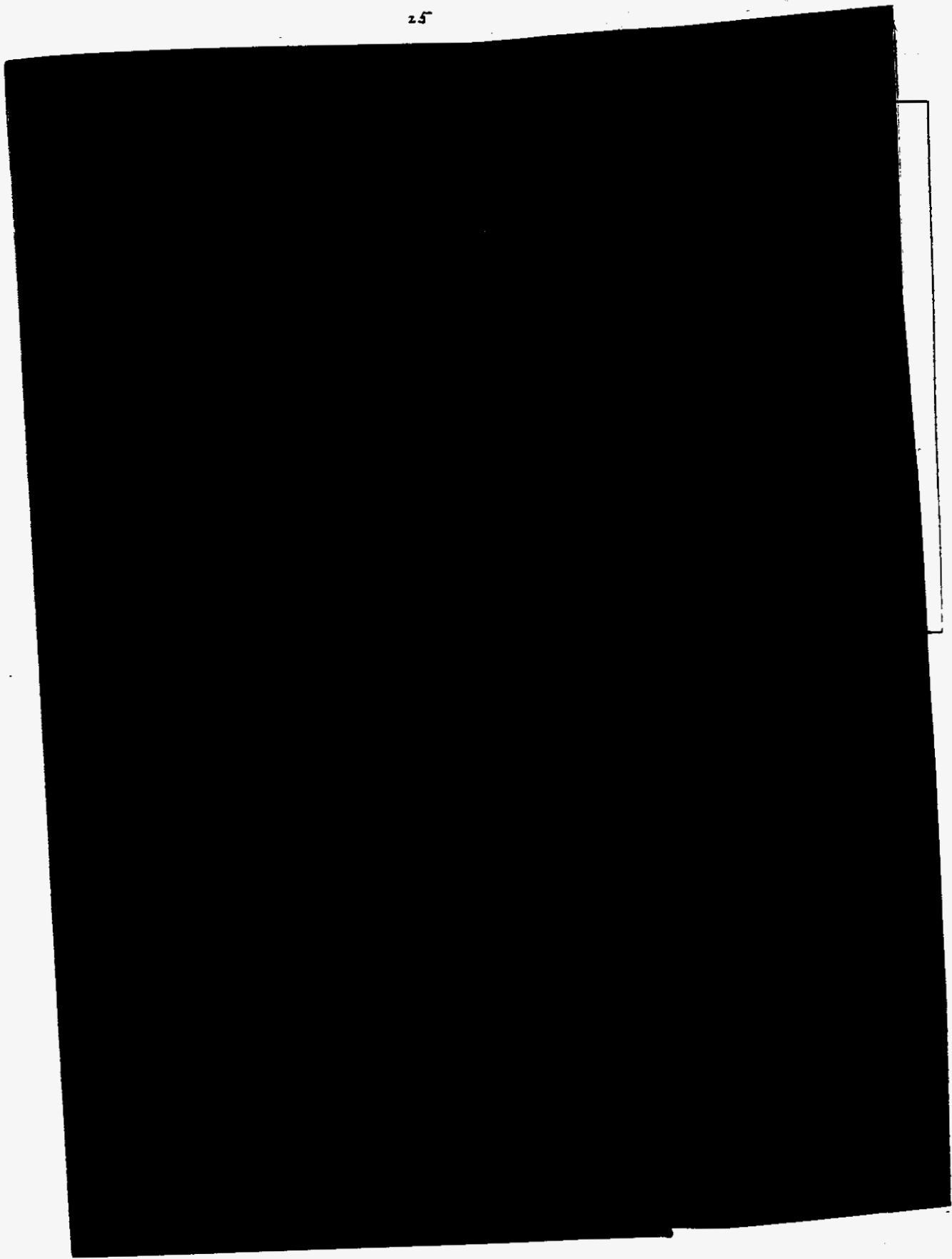
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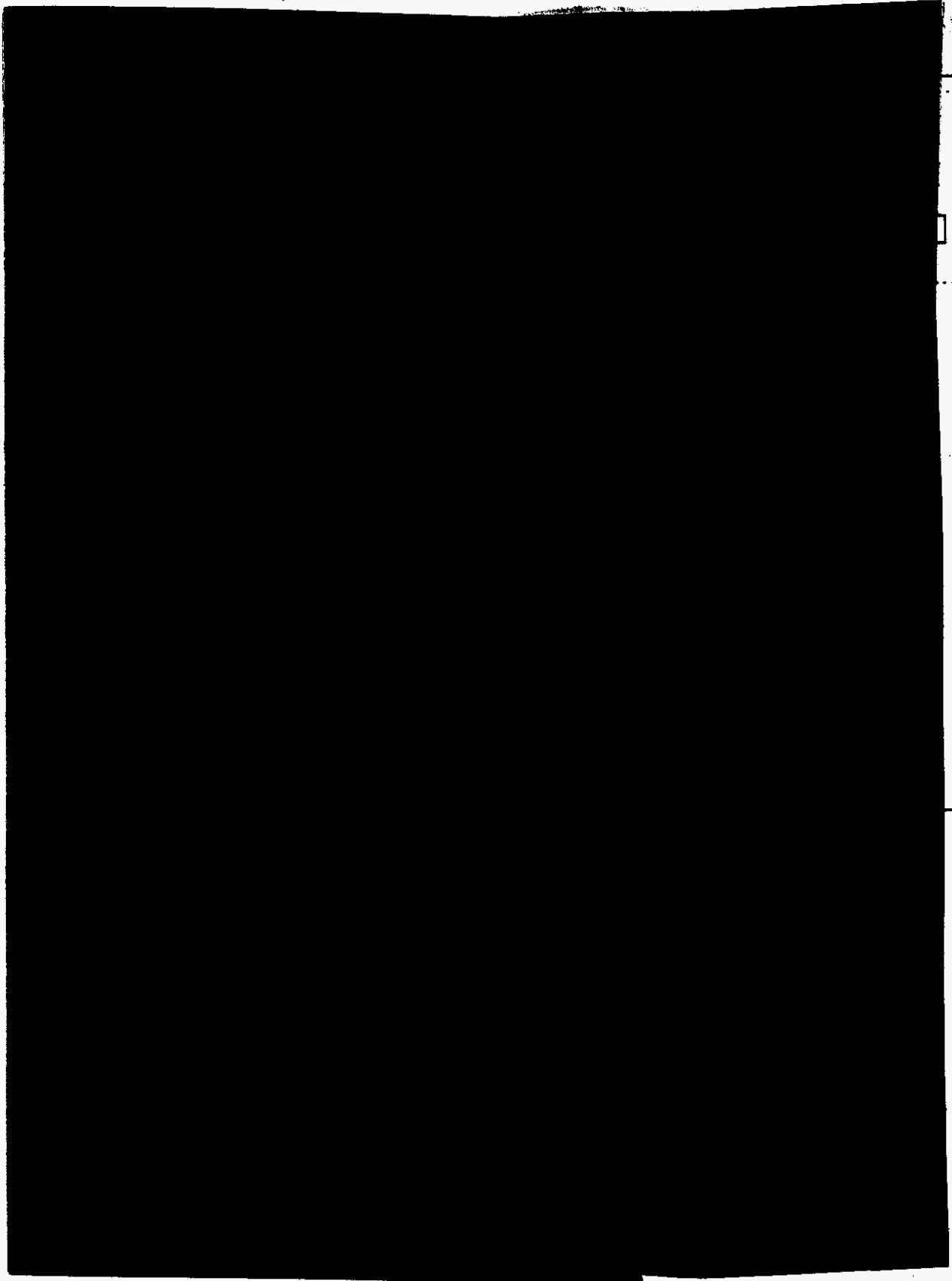
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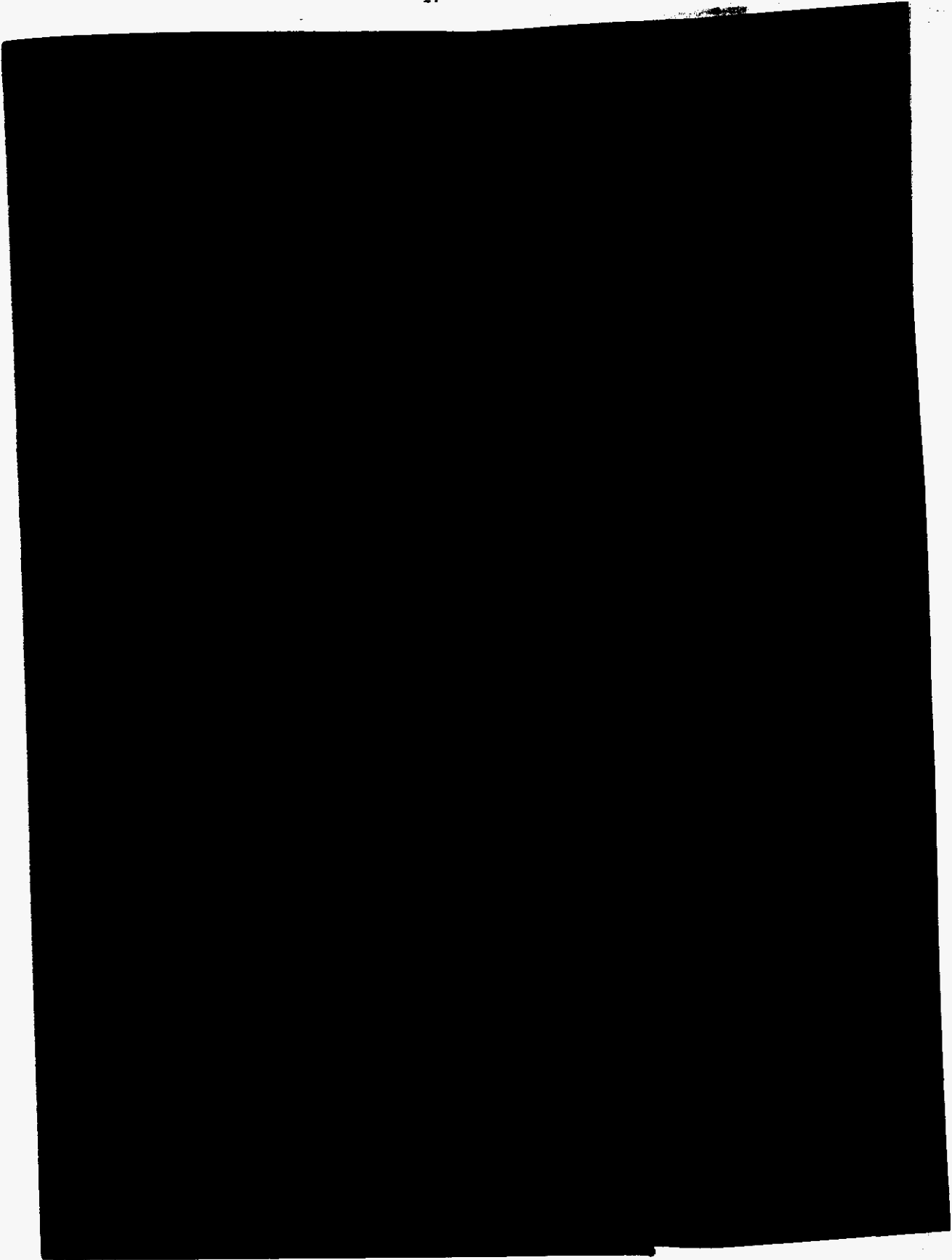
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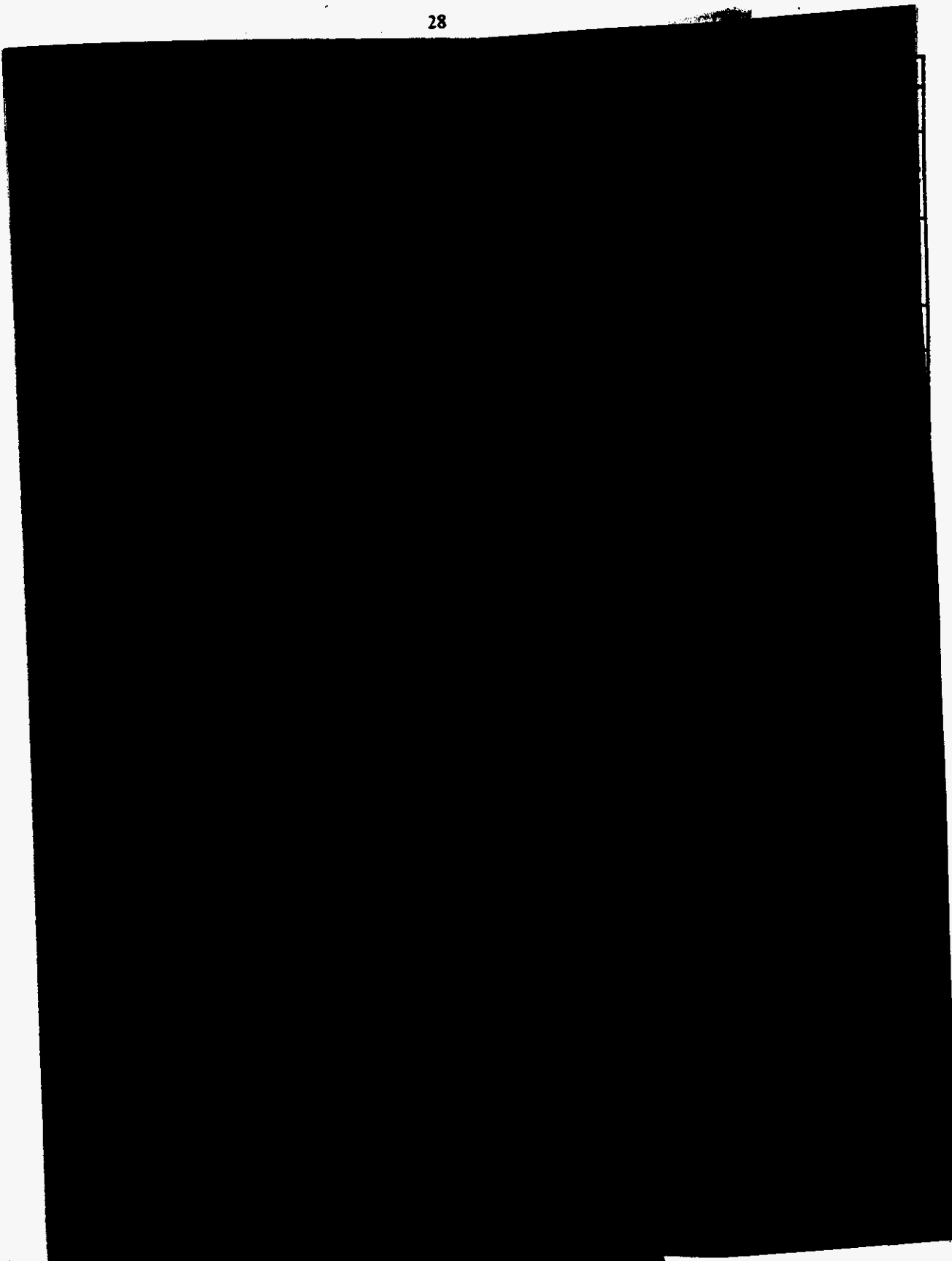
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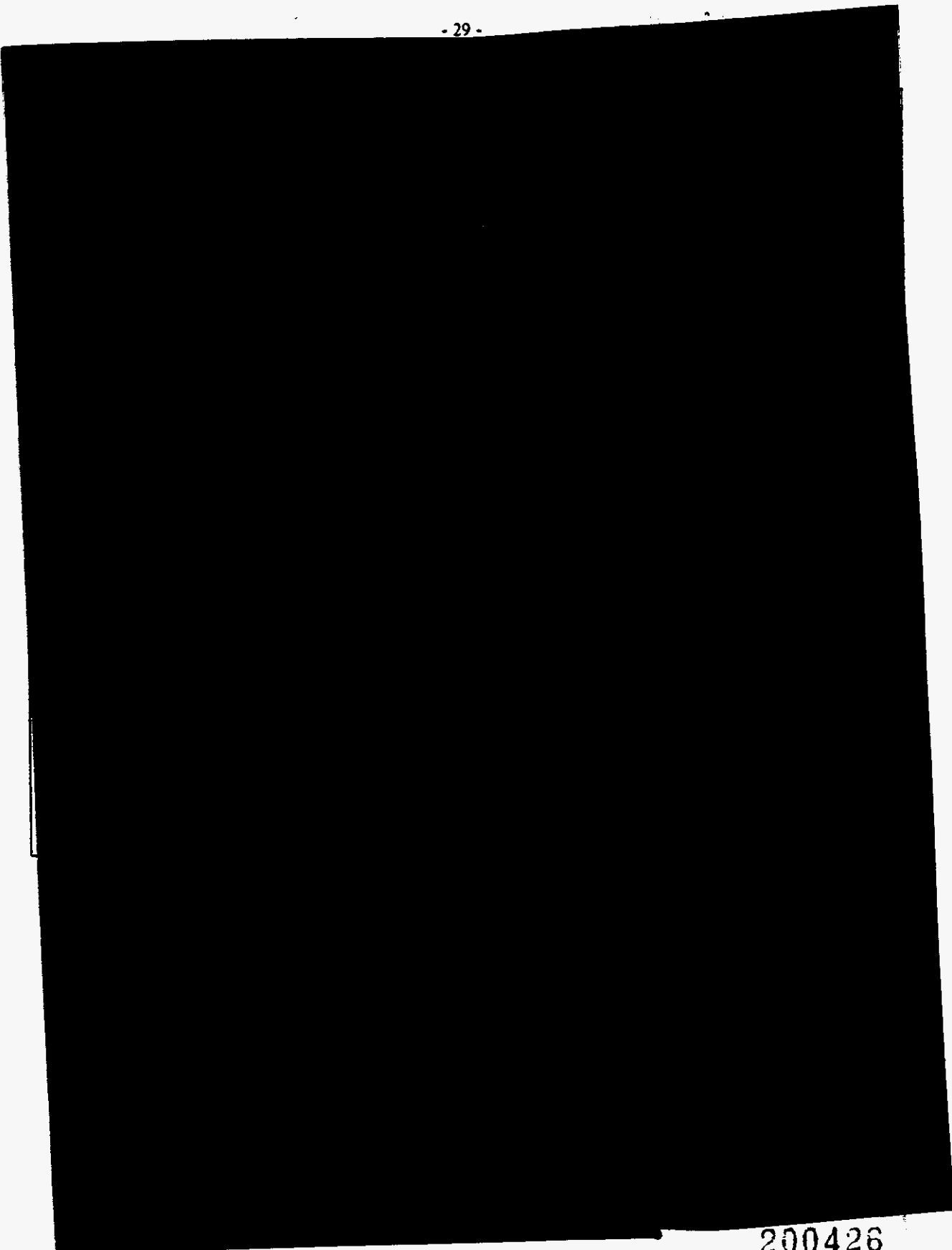
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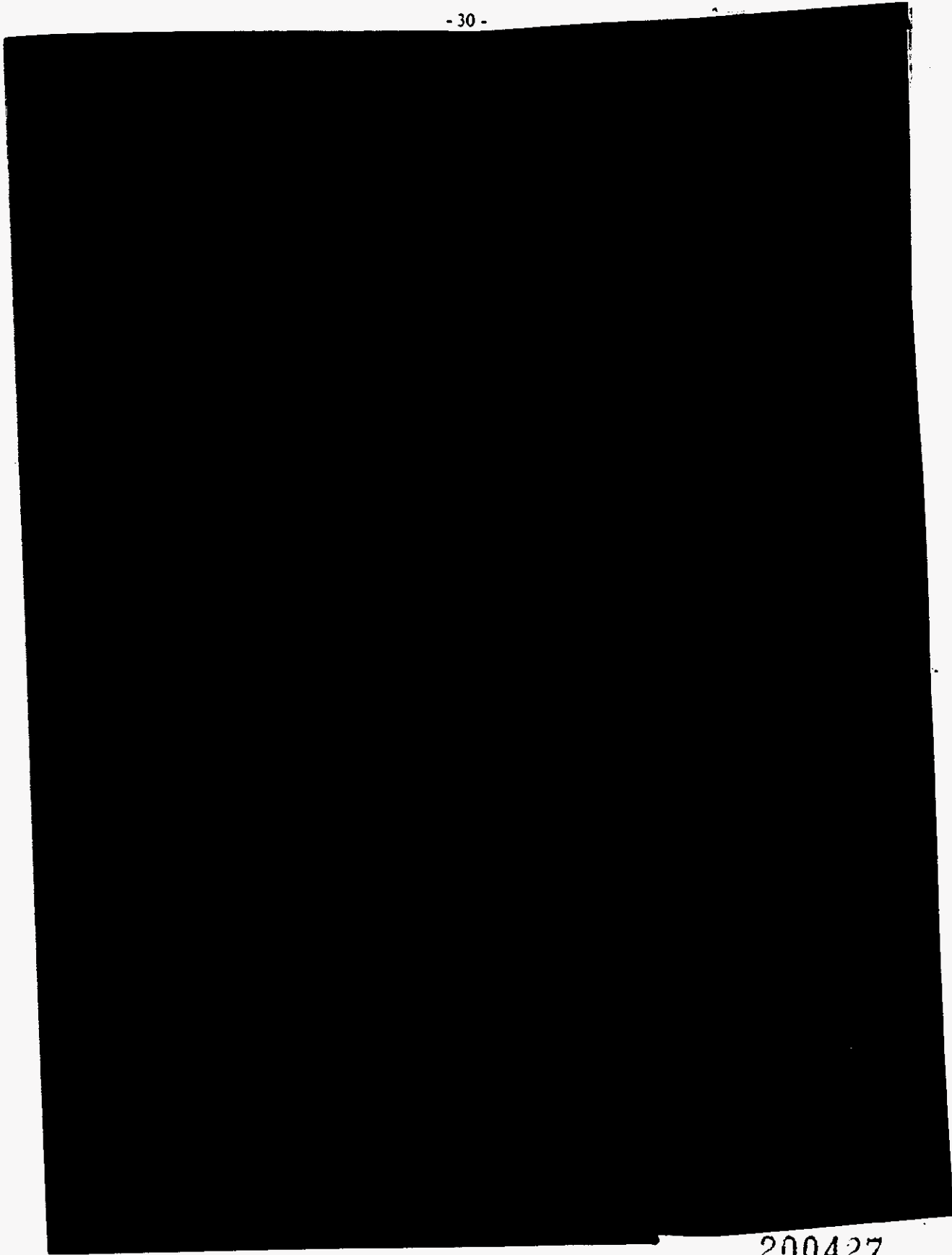
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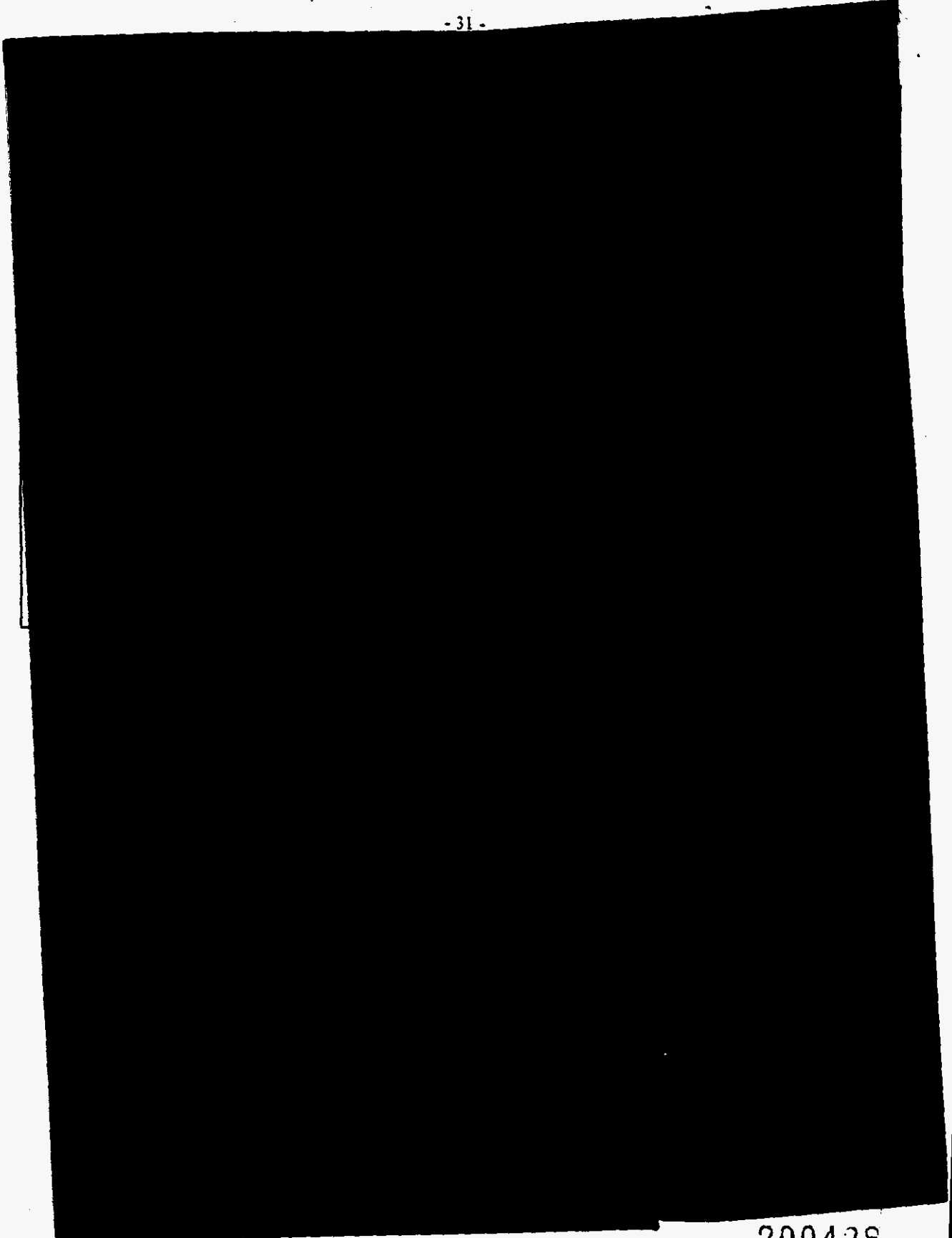
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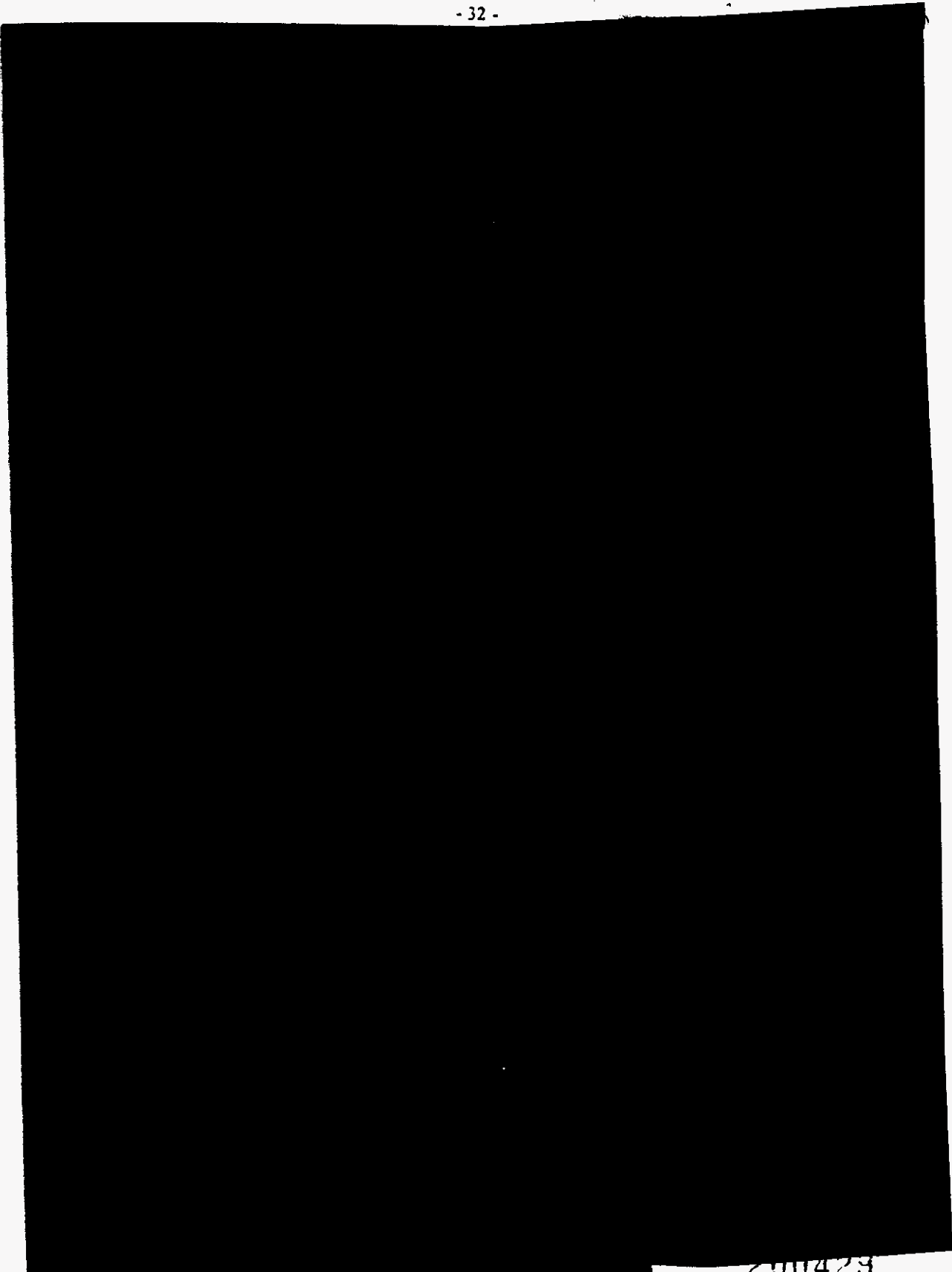
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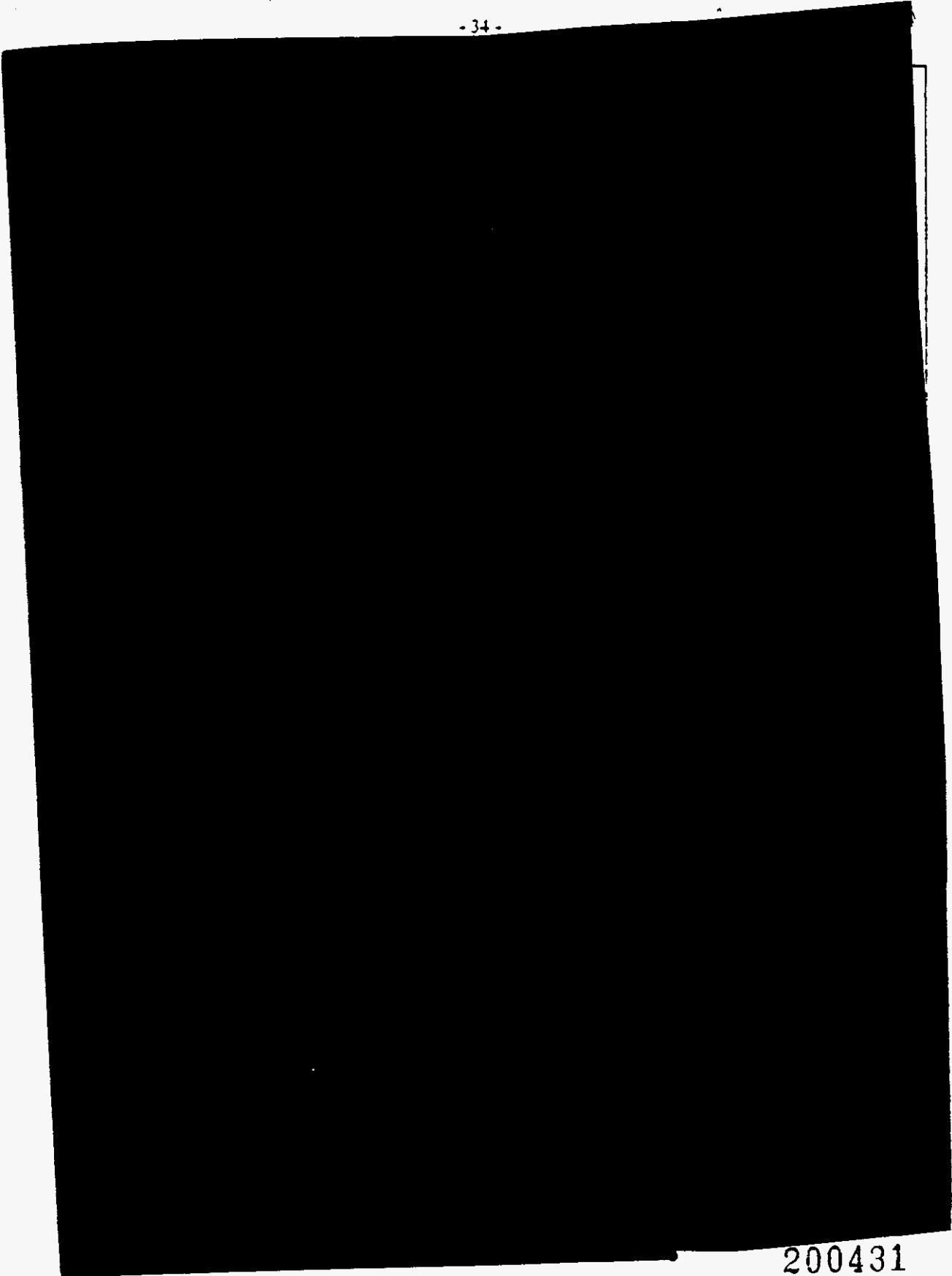
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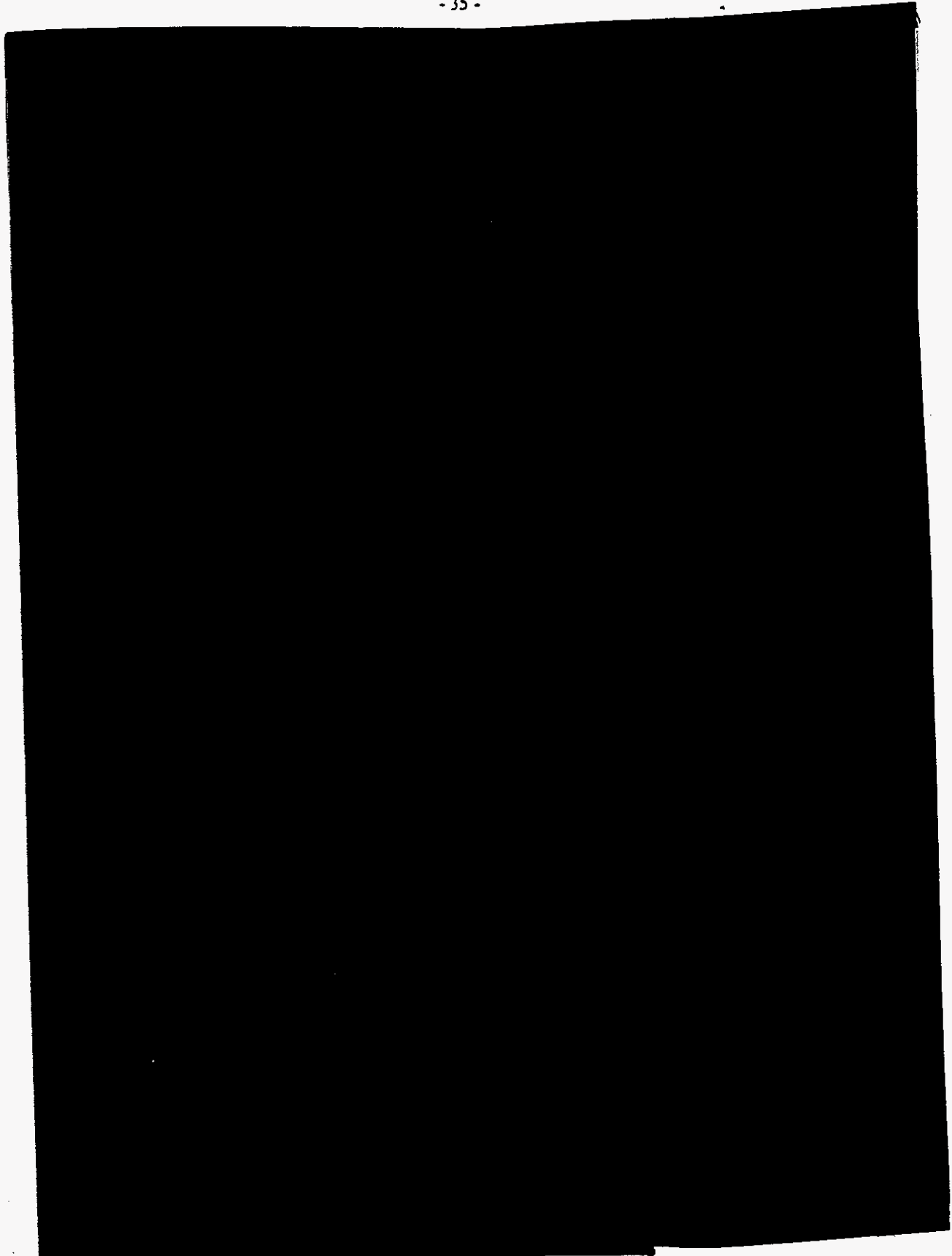
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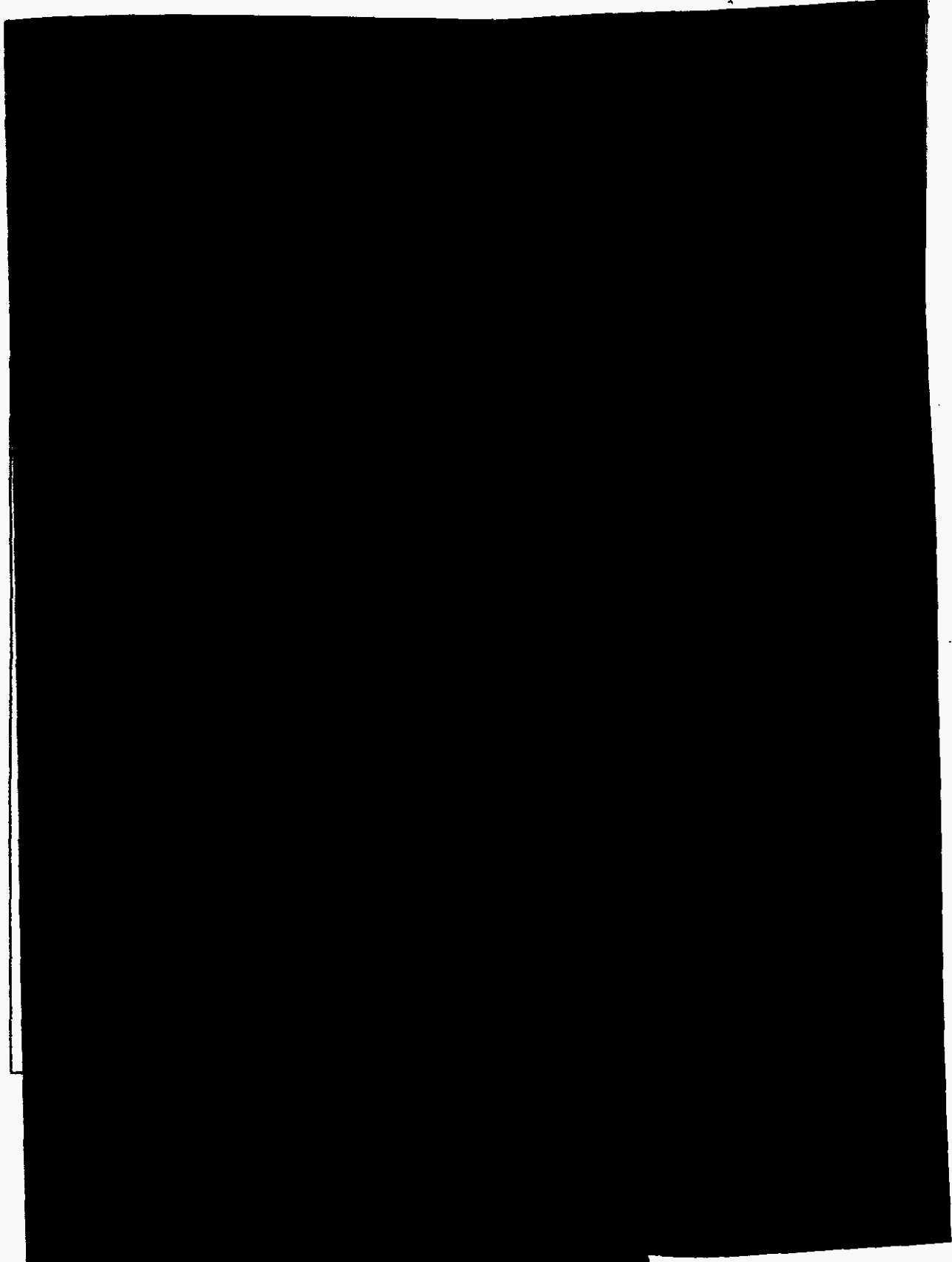
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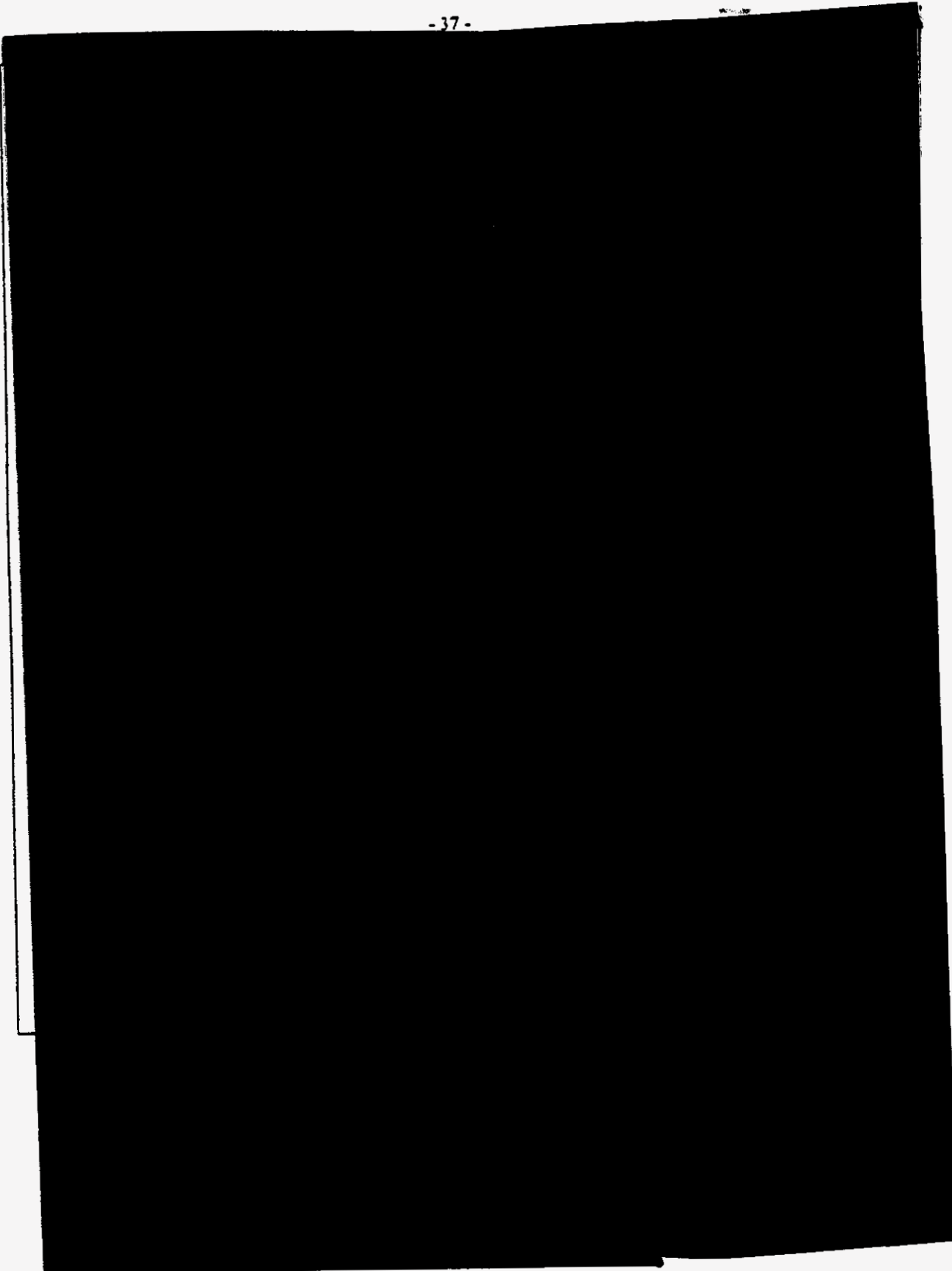
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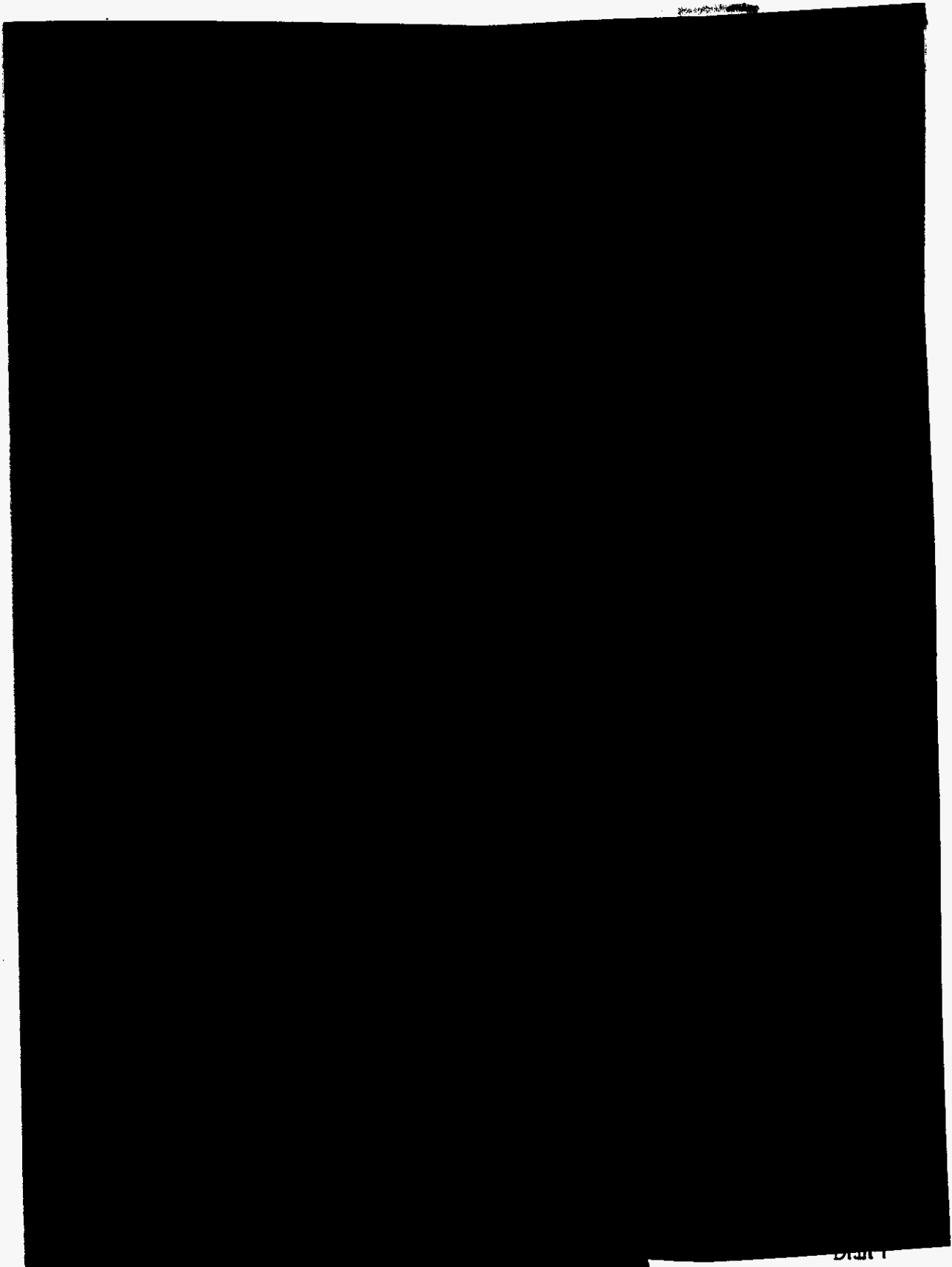
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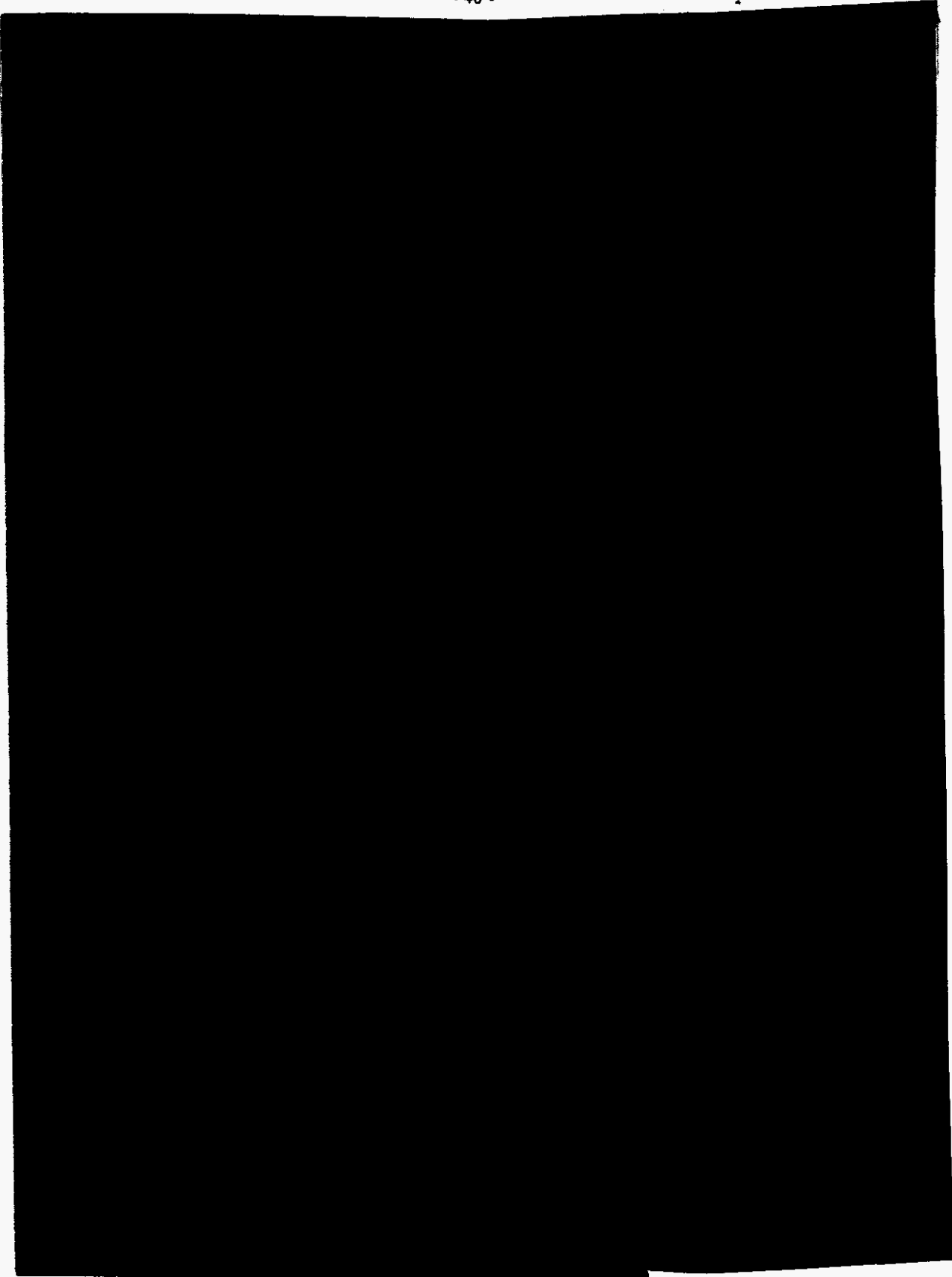
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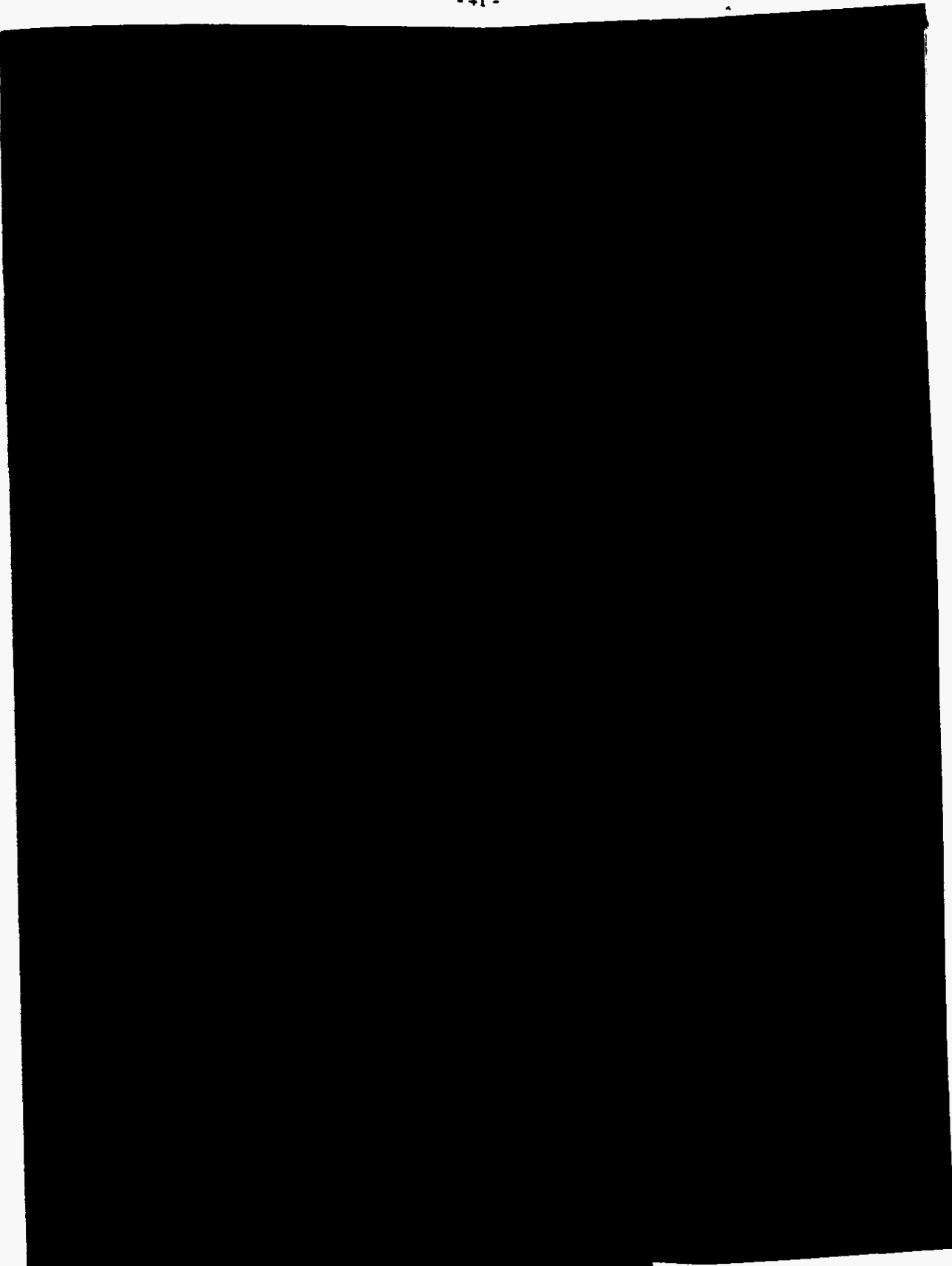
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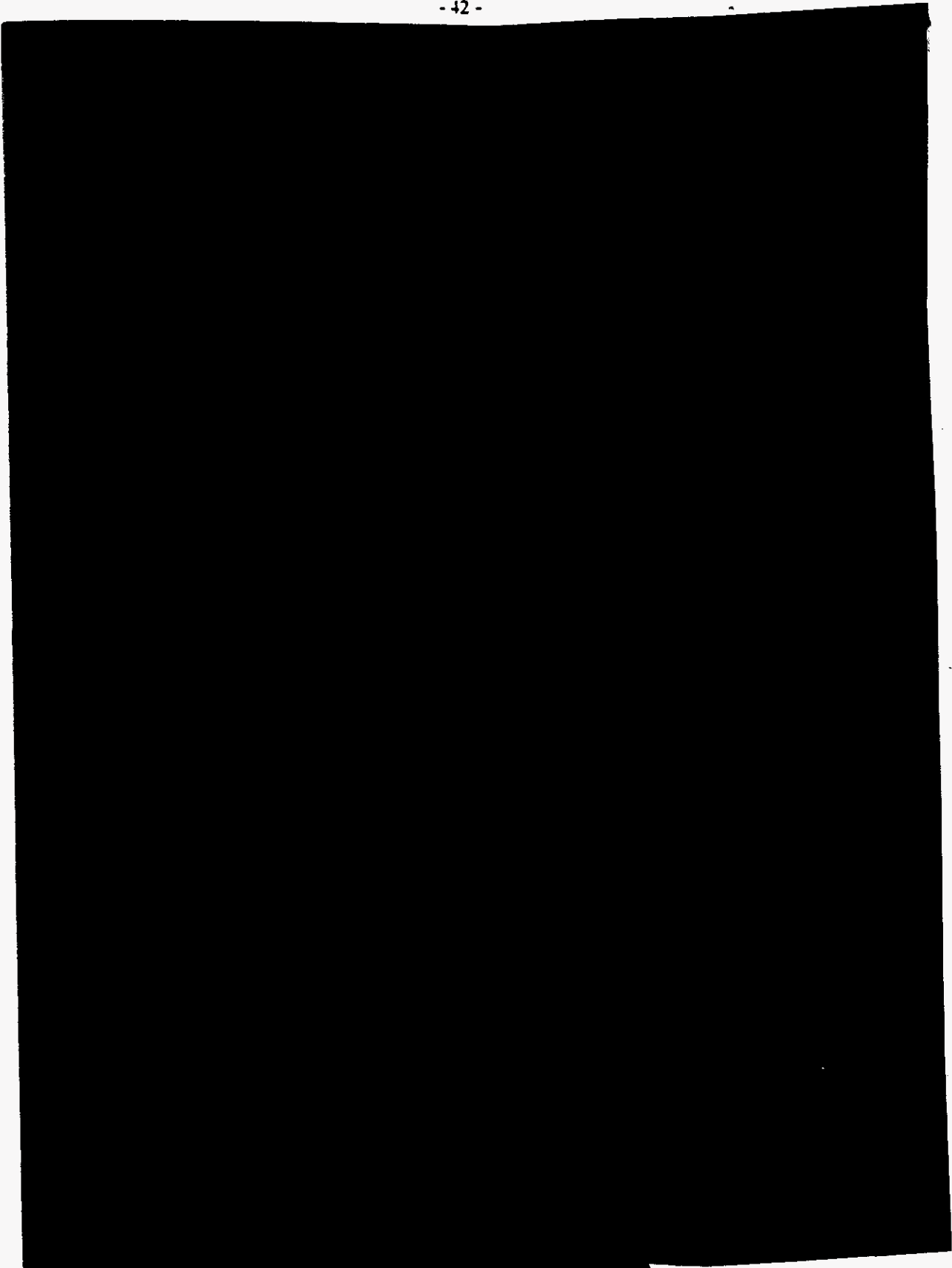
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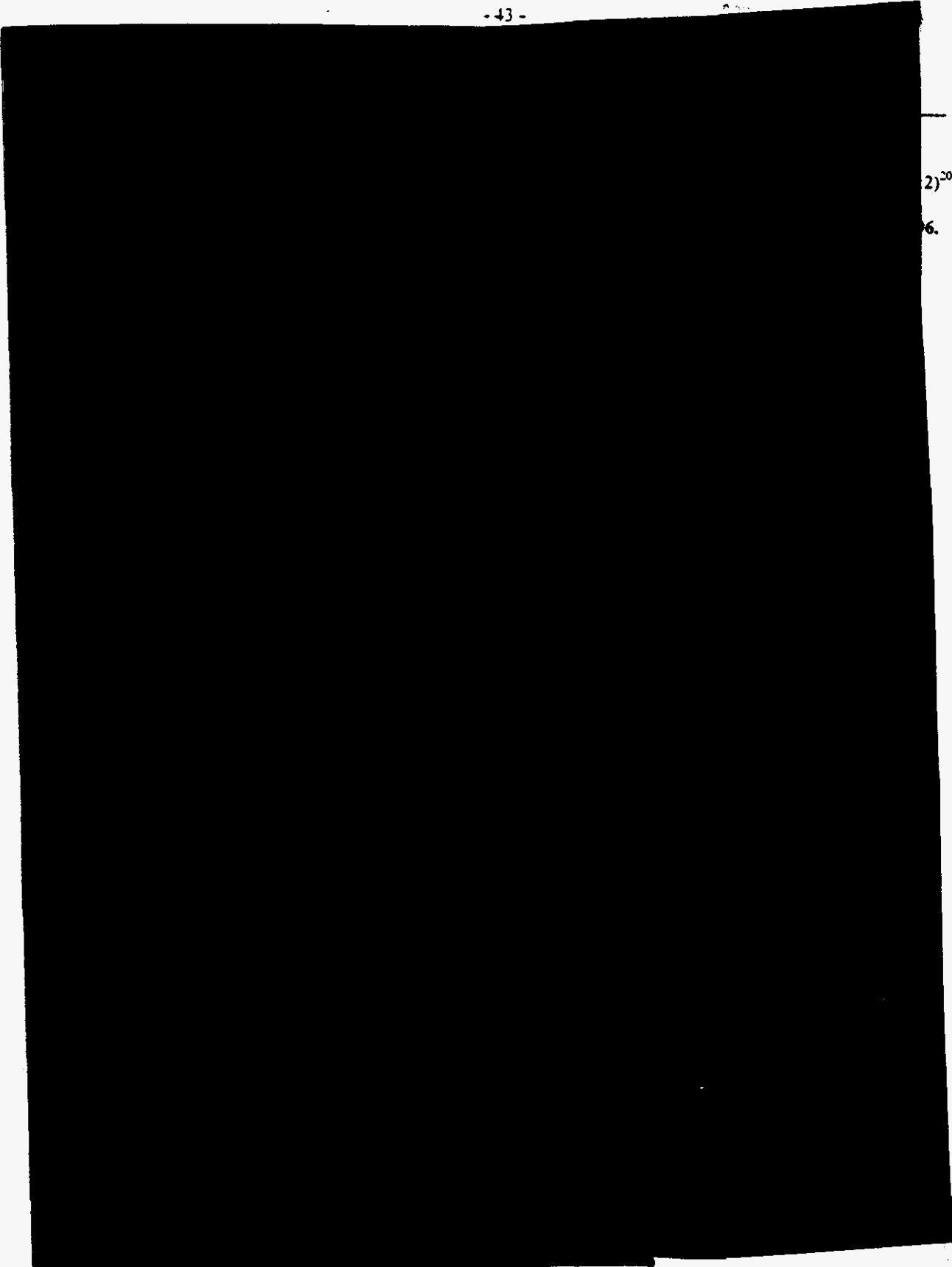
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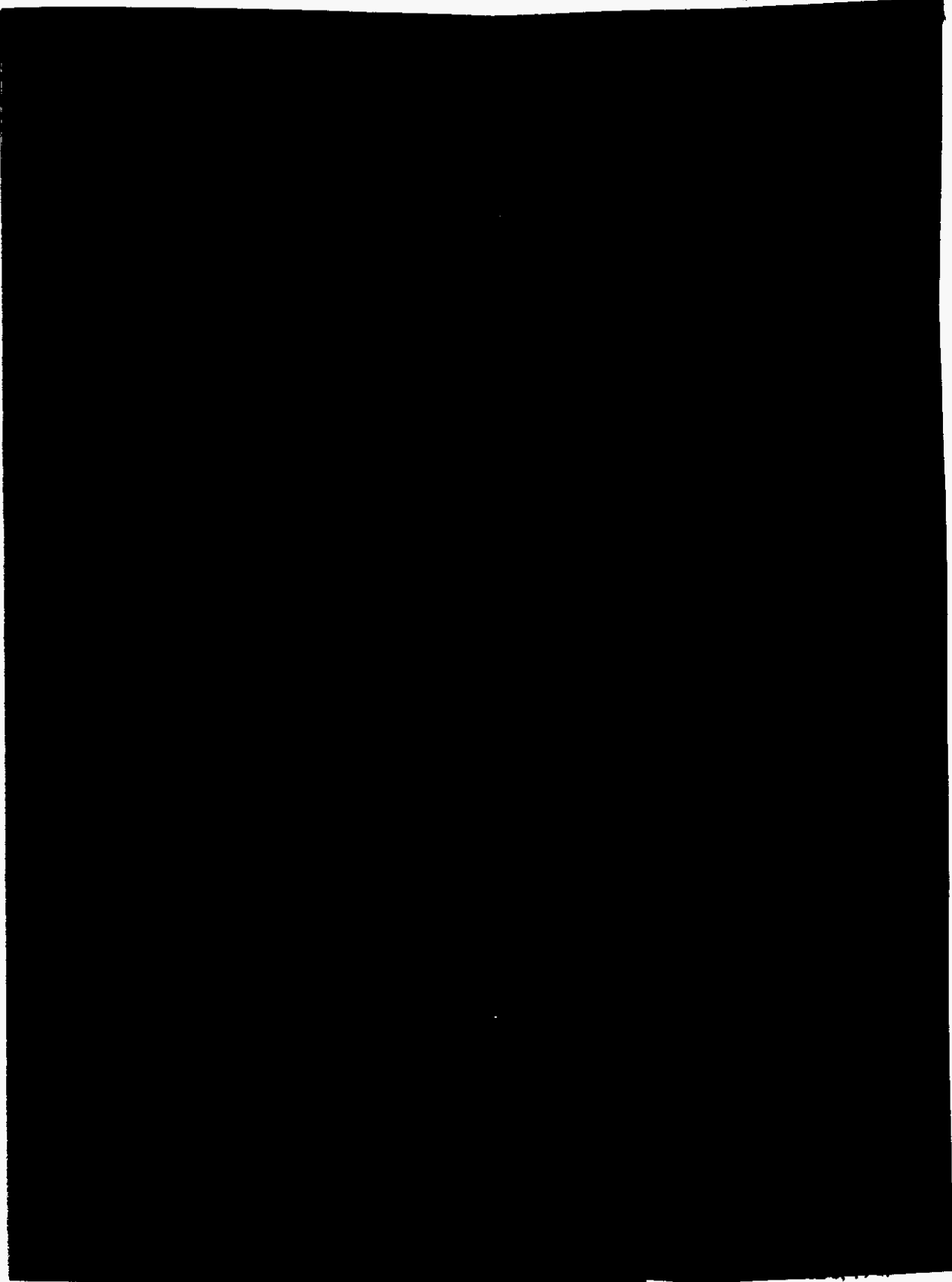
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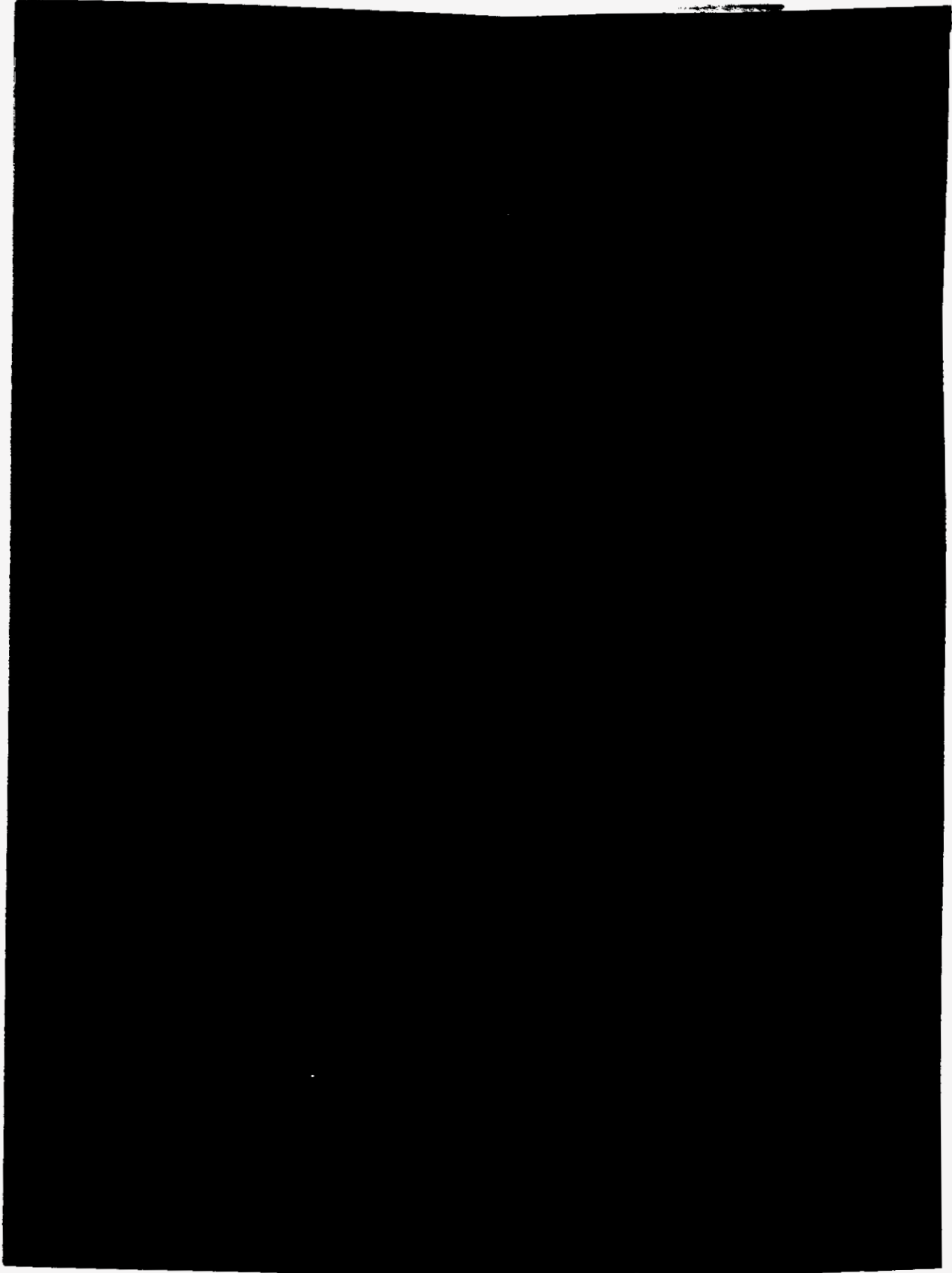


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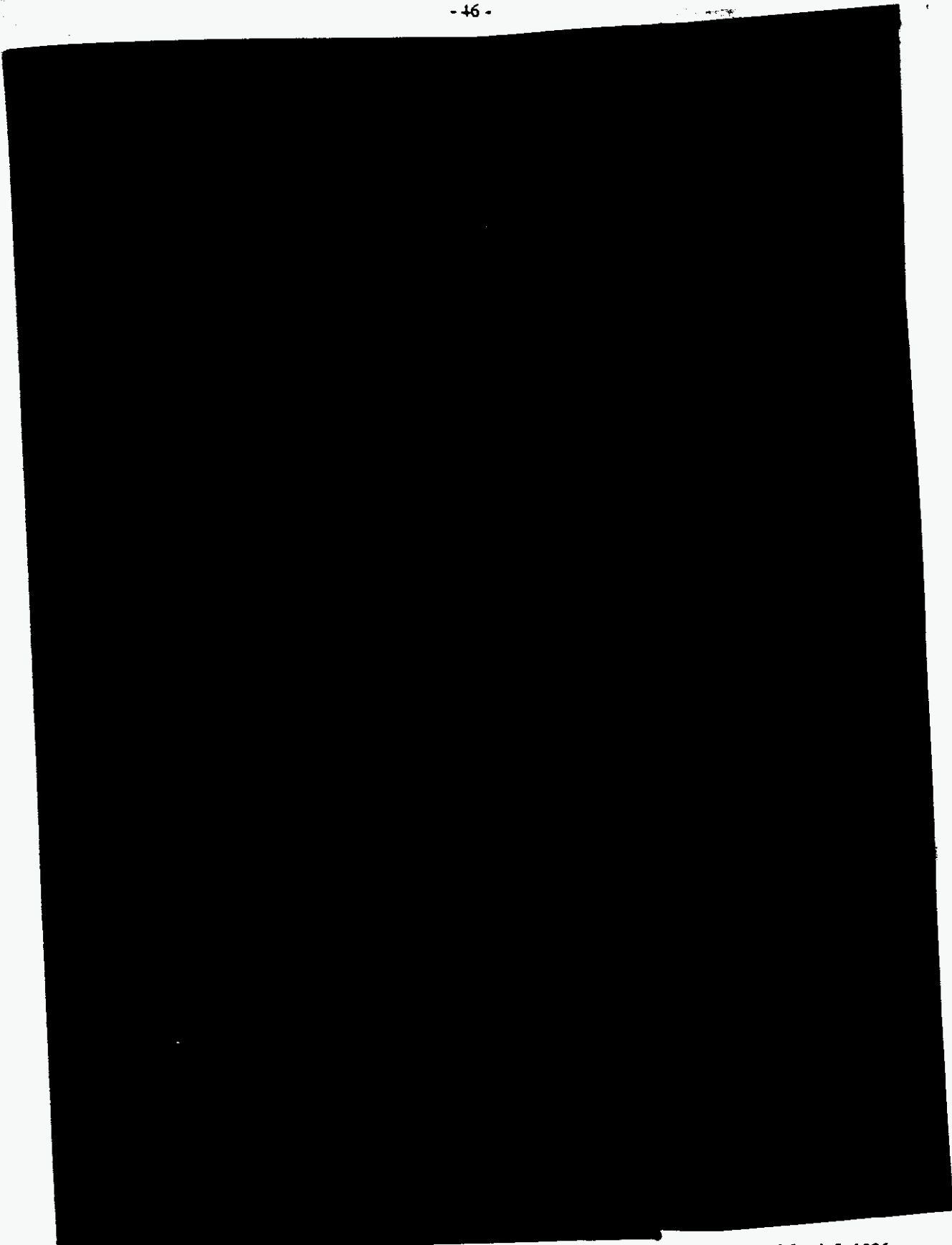
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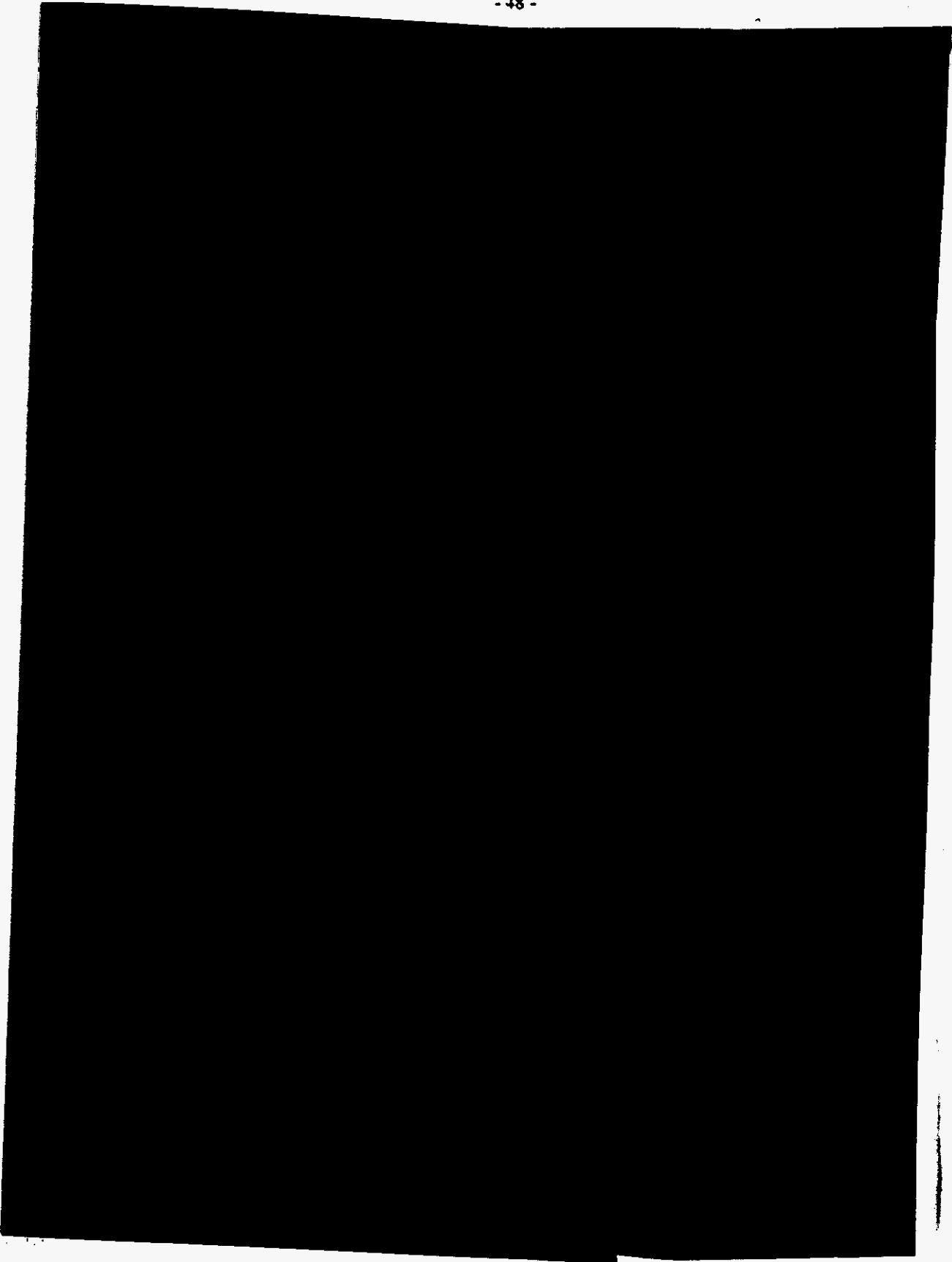
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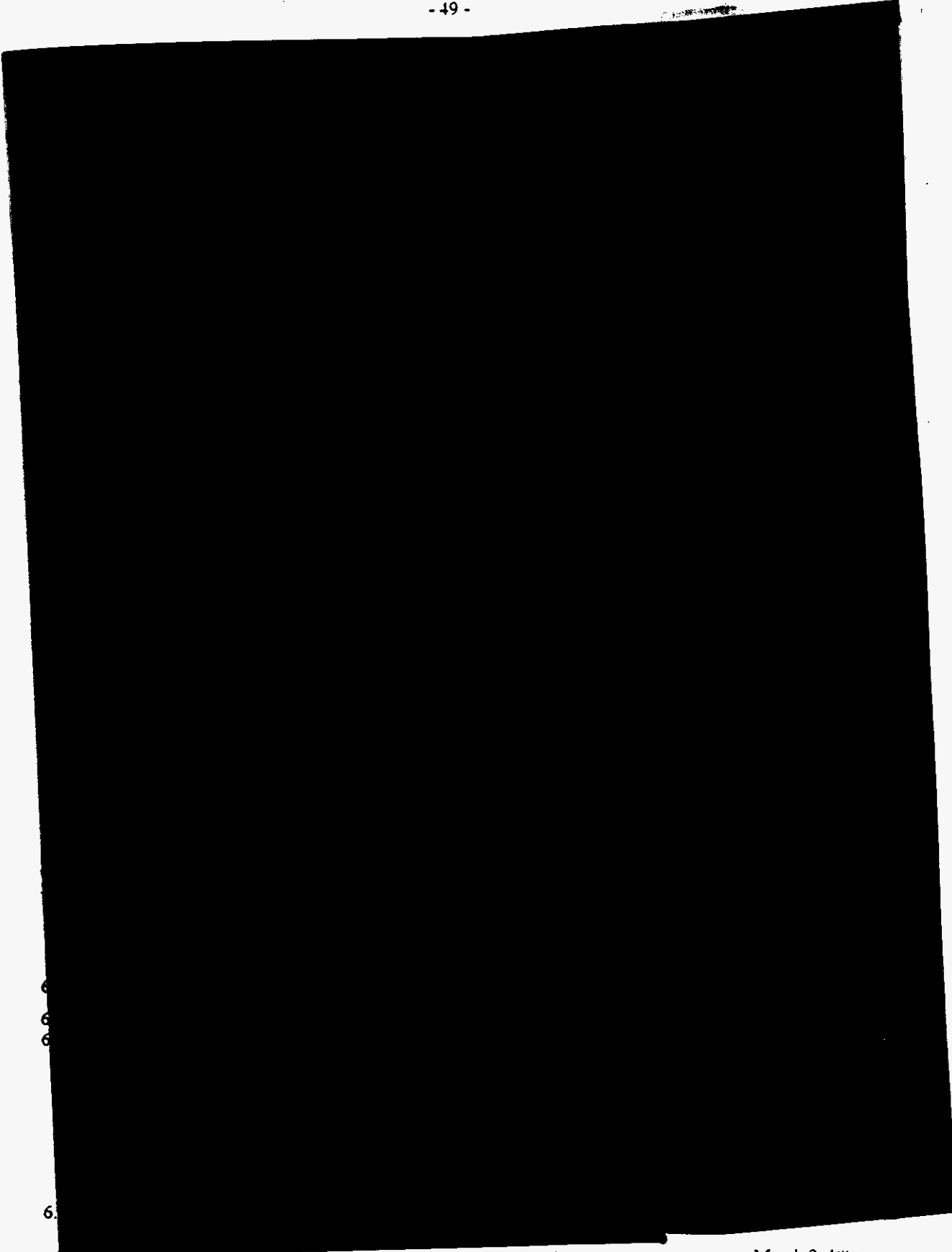
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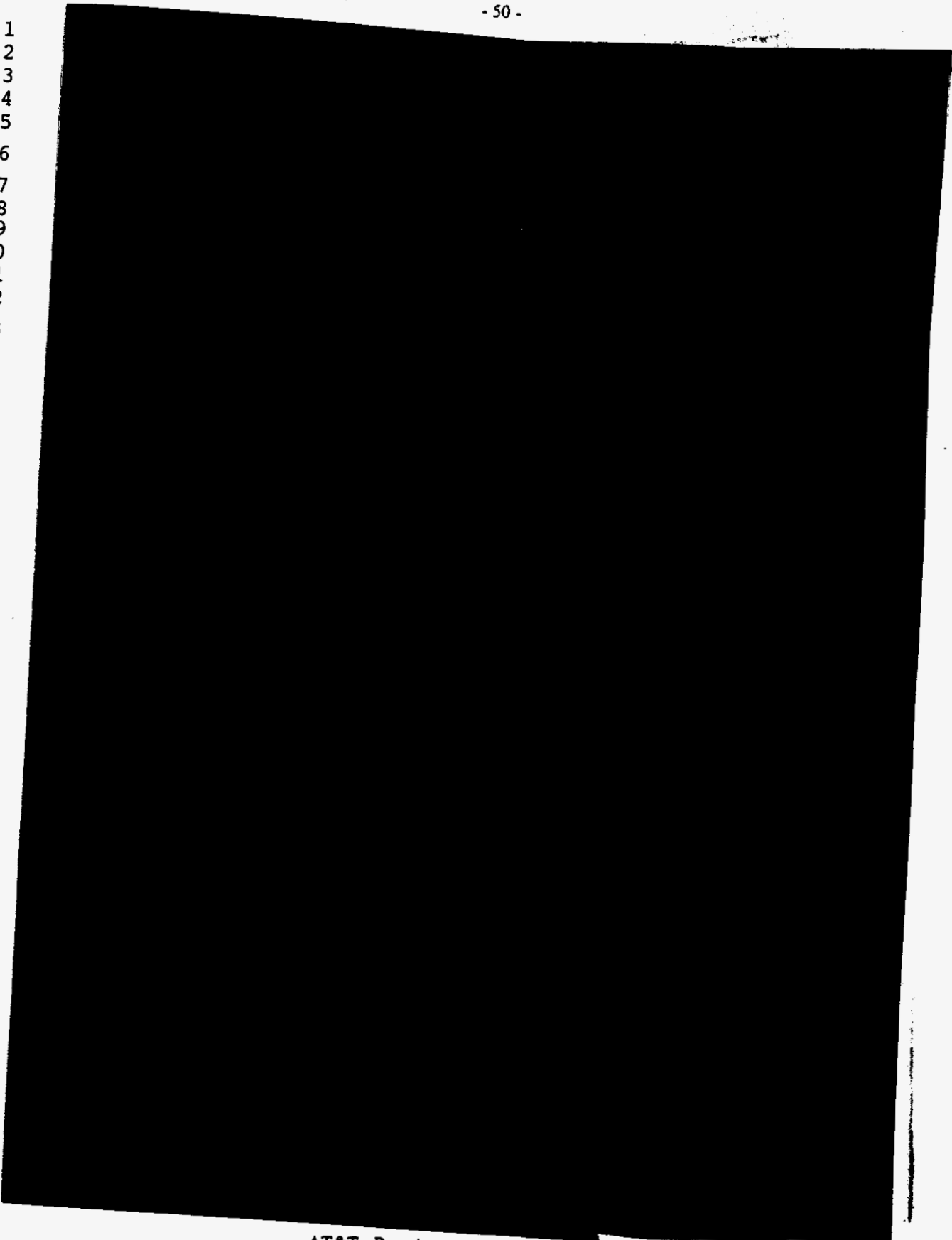
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Local Operator Services

Technical Plan

Issue 1.0 (Approval Copy)

March 28, 1996

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1 1. INTRODUCTION (LCM)

2 This document presents the technical plan for offering local Operator Services (OS) using AT&T's
3 JESS® Operator Services Position System (OSPS) which is currently servicing AT&T's interLATA OS
4 traffic and AT&T-provided OS for Article IV companies¹. AT&T Local residential and business
5 customers dial 0+ 7/10 digits or 0- to obtain service for calling card and local operator services. This
6 service would enable customers to experience the AT&T brand for local Operator Services. The use of the
7 OSPS platform enables the sharing of a common user interface for local and interLATA operator services.
8 and provides the opportunity for synergy in service evolution. Furthermore, the sharing of the platform
9 may result in unit cost advantage.

10 In the current plan, we consider both the LEC Service Resale and basic access arrangement of Loop
11 Resale with the leased loop terminated at the LEC MDF and hand-off to the AT&T local end office.
12 Please refer to Section 1.3 for the scope of this planning effort.

13 1.1 Overview (LCM)

14 AT&T Local customers can reach operator services by dialing with the prefixes: 1+², 0+ (interLATA and
15 intraLATA), 0-, 00-, and 01+³. In the LEC (Local Exchange Carrier) Service Resale⁴ environment, there
16 are two ways to provide operator services. (1) The LEC can provide operator assisted IntraLATA (toll
17 and local) service for AT&T local customers. This is not the preferred AT&T option, and this option is
18 not being addressed by this TP. (2) The LEC can route all AT&T customers' operator services calls
19 (InterLATA and IntraLATA) to an AT&T JESS® OSPS using switch-dependent techniques such as Line
20 Class Codes (described in more details in the "Access Architecture" section of this document). Calls
21 routed to and handled by the JESS® OSPS will be branded AT&T. In the Loop Resale⁵ environment, the
22 AT&T Local End Office⁶ will route the customer-originated requests for interLATA and intraLATA
23 operator services⁷ to an AT&T JESS® OSPS. This TP addresses the case (2) alternative.

24 ¹ Article IV companies are Independent Operating Companies whose local operator service is provided by
25 AT&T on a contractual basis. Input from Dennis Pearson.

26 ² Normally 1+ is used for Hotel / Motel and Coin operator services. It is not being addressed in this
27 document. Refer to Section 2.2.2 "Restrictions and Limitations".

28 ³ A 01+ call must be dialed with a country code (CC) and a national number (NN). A typical operator
29 assisted international dialed number will look like this: 01+CC+NN.



33 or. The operator can assist the customer by offering alternative billing options such
34 as: collect, bill to third, etc. The dialing with prefix 01+ or 011+(for direct dial international calls) are not
35 described in this Technical Plan which is intended to address local operator services only. The handling
36 of these calls should remain unchanged.

37 ⁴ With LEC Service Resale, AT&T local service is provided by the LEC network and AT&T resells LEC
38 service.

39 ⁵ With Loop Resale, the LEC loops will be separated at the Main Distributing Frame (MDF) at the LEC
40 End Office and transported to an AT&T-owned JESS® End Office.

41 ⁶ Local End Office is defined in Section 1.2 "Terminology".

42 ⁷ Assuming that business decision is to offer combined interLATA and intraLATA service. If the offer
43 includes customer selection of interLATA carrier, then the interLATA operator service may have to be
44 routed to the platform of the PICed carrier of choice if it is not AT&T.

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1 The proposed plan focus on the technical feasibility of having the AT&T customers' local OS calls routed
2 by the LEC End Office or AT&T Local End Office to an AT&T 5ESS® OSPS for handling.

3 In the remainder of this document, the focus is on the local OS (e.g., 0+ and 0-) calls. The
4 term "0+ calls" refers to 0+ 7/10 digits for IntraLATA toll and IntraLATA local calls which
5 are currently handled by the LEC by default. The term "0-" referred to operator assistance
6 calls currently handled by the LEC. For customers who are PICed AT&T for InterLATA
7 service, it is implicit that the 0+ InterLATA and the 00- (InterLATA operator assistance)
8 calls are already routed to and handled by the AT&T 5ESS® OSPS and are not discussed in
9 this document.

10 1.2 Purpose (LCM)

11 The purpose of this document is to provide Local Service planners and Product Management with a
12 service architecture plan to implement an AT&T branded local Operator Service (OS). It also provides
13 input for engineering, development, provisioning, operations, testing, and Methods and Procedures
14 (M&P) revisions.

15 This plan:

- 16 1. establishes the synergy between the AT&T interLATA and local OS.
- 17 2. is an alternative to the current Plan of Record of local OS provided by the incumbent Local Exchange
18 Carrier (LEC) for LEC Service Resale.⁸
- 19 3. assesses the feasibility of using existing 5ESS® OSPS platform to service local operator service calls
20 as quickly as possible for both Loop and LEC Service Resale environments.
- 21 4. identifies any service feature outage and proposes plan to resolve identified issues.
- 22 5. identifies any development efforts that are required to support items 3 and 4 above, and identifies
23 those effort which are needed prior to initial service.
- 24 6. serves as an interface document with Operator Service Channel Management and basis for the
25 identification of areas that may require new Methods and Procedures (M&Ps) and operator training.
- 26 7. provides Product Management with the data needed to build a business plan.
- 27 8. provides input for engineering, provisioning, development, testing, and call billing.

28 ⁸ Current Plan of Record is AT&T-provided local OS for Loop Resale.

1 1.3 Terminology (ALL)

2 The following terms are used throughout the document.

3 *Local Service* - Consists of switch-based features and other services (for example, local Operator Services)
4 which have been traditionally offered by the LEC to residential and business customers. AT&T will offer
5 these features and services to the AT&T residential and business customers via a local tariff filing, as it
6 enters the local market.

7 *Local End Office* - refers to the switch where customer lines terminate. In this document, references are
8 made to the LEC End Office in the LEC Service Resale environment and AT&T Local End Office in the
9 Loop Resale environment.⁹

10 *LEC Service Resale* - Local Service is provided using LEC network services.

11 *Loop Resale* - In this type of architecture, AT&T leases the loop facilities to the end customers home, but
12 purchases and manages its own local end office switch. The strictest definition of the term "loop resale"
13 includes only intraLATA local and intraLATA toll traffic served by an AT&T purchased and managed
14 local end office switch with leased loop facilities to the customer's homes or businesses.¹⁰

15 *IntraLATA call* - A call placed (originating and terminating) within a single LATA. IntraLATA calls
16 fall into two categories: local (non-toll) and toll calls. The local calls are referred to as intraLATA local
17 calls and are those that are placed to (NPA) NXXs in the AT&T customer's local calling area. These
18 calls normally do not incur charges based on the distance of the call or the duration of the call. The toll
19 calls are referred to as intraLATA toll calls and are those calls that are placed to (NPA) NXX's located
20 within the AT&T customer's LATA. These calls incur charges allowed by state tariffs, for both distance
21 and duration.

22 In the remainder of this document, the terms "intraLATA call", "intraLATA toll call", and
23 "intraLATA local call" are used. The term "intraLATA calls" refers to both the "intraLATA local
24 calls" and "intraLATA toll calls".

25 *Operator Services Position System Toll and Assistance (OSPS T&A)* - The OSPS Toll and Assistance
26 (T&A) application is a major application to the SESS® Switch. OSPS T&A relies on the features and
27 facilities provided by the SESS® Switch in such areas as automatic call distribution, administration,
28 billing, access to external databases, interflow, maintenance, and trunking. However, OSPS T&A is
29 unique because human operators, using Video Display Terminals (VDT) or Operator Work Stations
30 (OWS) and / or Automated Positions using Voice Recognition Call Processing (VRCP) interact directly
31 with the automated aspects of the architecture and the calling customer.

32 *Local Operator Services* - Local operator services describe the type of calls handled by the SESS® OSPS
33 that will be included in the AT&T Local Service offering (as specified by the term "Local" in "Local
34 Operator Services"). These services are accessed via customer originated 0+(intraLATA) calls and 0-
35 calls. These access methods are explained and the available service features are described in section 2.4
36 "Local Operator Service and Call Features".

37 ⁹ The Local End Office is sometimes referred to as the "Local Switch Office (LSO)" in other documents
38 that address Local Service.

39 ¹⁰ T. E. Adams, et. al., Loop Resale Technical Plan, Draft 3.0, December 22, 1996.

1 *IPIC* - a switch feature supported by the 1A ESS Switch and the 5ESS Switch that allows a calling party
2 to presubscribe to a carrier to carry intraLATA toll calls.

3 1.4 Scope (LCM)

4 This document covers the technical planning information for providing local operator services for local
5 residential and business customers who choose AT&T as their local service provider.

- 6 • This plan addresses local operator services which are available to AT&T local customers who dial
7 with a prefix of 0+ (intraLATA) and 0- to reach operator services. It is assumed that customers
8 dialing with prefix of 0+ (interLATA), 00-, and 01+ would work as currently for AT&T-provided
9 interLATA operator services and are not discussed in this document.
- 10 • This plan considers both the LEC Service Resale and basic access arrangement of Loop Resale with
11 the leased loop terminated at the LEC MDF and hand-off to the AT&T local end office. It is
12 recognized, however, that there are other connectivity options to be analyzed on an on-going basis,
13 and there are others to be considered as viable options as soon as the technology becomes mature. As
14 is needed, this document will be updated in the future to address other Loop Resale access
15 environment.
- 16 • BCS access options being considered currently for Loop Resale affect the access arrangement from
17 the Customer Premise Equipment to the end office switch, but will be compatible
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED] gh
24 [REDACTED]
25 [REDACTED]
26 [REDACTED]
- 27 • Dial-around using one of the 3- or 4-digit CIC codes (for example, 0288 as in 10288) to reach AT&T
28 operator services is not addressed in this document because the 3- or 4-digit CIC code directs caller to
29 an interexchange carrier.

30 1.5 Guide to the Document (LCM)

31 This Technical Plan proposes method for routing the 0+/0- calls from the LEC End Office or AT&T Local
32 End Office to the AT&T 5ESS® OSPS, and evaluates applicable local operator service call flows to
33 determine if the existing 5ESS® OSPS is able to handle local OS calls and to identify any impacts and
34 enhancements required to support local operator services.

35 This Technical Plan contains the following sections:

- 36 1. INTRODUCTION section provides a brief description of the planning effort, the purpose, the scope,
37 and the structure of the document.

38 ¹¹ Data provided by M. S. Huq, S. Ganesan, P. Zahray. (Also refer to Loop Resale Technical Plan, T. E.
39 Adams (Coordinator), Issue 3.0, December 21, 1995.

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- 1 2 SERVICE DESCRIPTION section provides a definition of the local OS service, service assumptions,
2 2 call volume assumptions, target market, as well as any restrictions and limitations of the proposed
3 2 service. High-level descriptions of the various operator services call types are also provided.
- 4 3 HIGH-LEVEL ARCHITECTURE DESCRIPTION section provides an overview of the selected
5 3 architecture.
- 6 4 TECHNICAL DESCRIPTION section provides the technical description of the access architecture
7 4 and call flows. For each call type, there are two sub-sections titled "Local Call Flow" and "Local
8 4 Service Impacts". The "Local Call Flow" sub-section describes the call flow for Local Service
9 4 offering of the specific call type. The "Local Service Impacts" sub-section summarizes any changes
10 4 or needs specific to Local Service as is reflected in the call flow, as well as additional issues or
11 4 supports required from the Local Service perspective.
12 4 The Local Service impacts identified for each call type are summarized in the SUMMARY IMPACTS
13 4 ASSESSMENT section.
- 14 5 RECORDING / BILLING section provides a description of the recording and billing impacts.
- 15 6 FEATURE INTERACTIONS section describes interactions with other features.
- 16 7 PERFORMANCE section describes any performance impacts.
- 17 8 SESS® OSPS OPERATIONS section lists some high-level service operations impacts and refer to an
18 8 Operations Technical Plan for detailed service operations strategy.
- 19 9 LOCAL TARIFF DATA section describes other support services that may be impacted.
- 20 10 SUMMARY IMPACTS ASSESSMENT section provides an assessment summary of efforts needed
21 10 to routing local Operator Service traffic to the AT&T SESS® OSPS platform for handling.
- 22 11 BUSINESS AND REGULATORY ISSUES section provides some business and regulatory issues as
23 11 well as some negotiation perspectives.
- 24 12 FUTURE WORK section considers the next-steps.
- 25 13 ISSUES section provides a list of issues / action items that have been identified. Most of the issues
26 13 are expected to be resolved. A few others may remain as suggestions for future implementation.
- 27 14 REFERENCES section lists documents referenced.
- 28 15 GLOSSARY section lists acronyms and abbreviations.

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2. SERVICE DESCRIPTION

2.1 Service Definition (LCM)

This document addresses an AT&T branded local Operator Services (OS)¹² that would allow AT&T Local Service customers to dial 0+ (intraLATA) / 0- to access either the AT&T automated Operator Services and / or a live operator for calling card and other local operator services. In addition, SESS® OSPS Toll and Assistance (T&A) can handle other calls that involve special types of services including Busy Line Verification/Emergency Interrupt (BLV/EI), Emergency Agency Call, and Operator-assisted Directory Assistance.

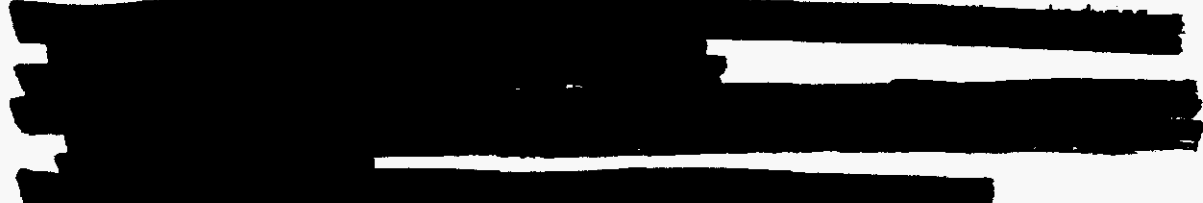


2.2 Assumptions (LCM)

2.2.1 Service Assumptions

The following assumptions were made:

1. Dial access for AT&T's local OS service will match that of the incumbent LEC traditional "0+/0-" service.
2. AT&T will provide local OS service for both LEC Service Resale and Loop Resale Local Service architectures.
3. SESS® OSPS will have the ability to distinguish intraLATA calls from interLATA calls.
4. Access to the AT&T SESS® OSPS is from the LEC end office in the LEC Service Resale environment, and AT&T end office switch for Loop Resale.
5. FG-C address signaling must be in the MFJ Operator Services Expanded Signaling format.
6. (a) Wink signaling can be Inband (IB), Expanded Inband (EIS), or Multiwink (MW).
(b) OSPS will determine the originating NPA from the incoming trunk group.
(c) Require ANI-II digit.
7. Emergency calls (0-) and Emergency tracing are supported.



¹² Also refer to "Restrictions and Limitations" section below for call types not to be supported based on input from Product Management.

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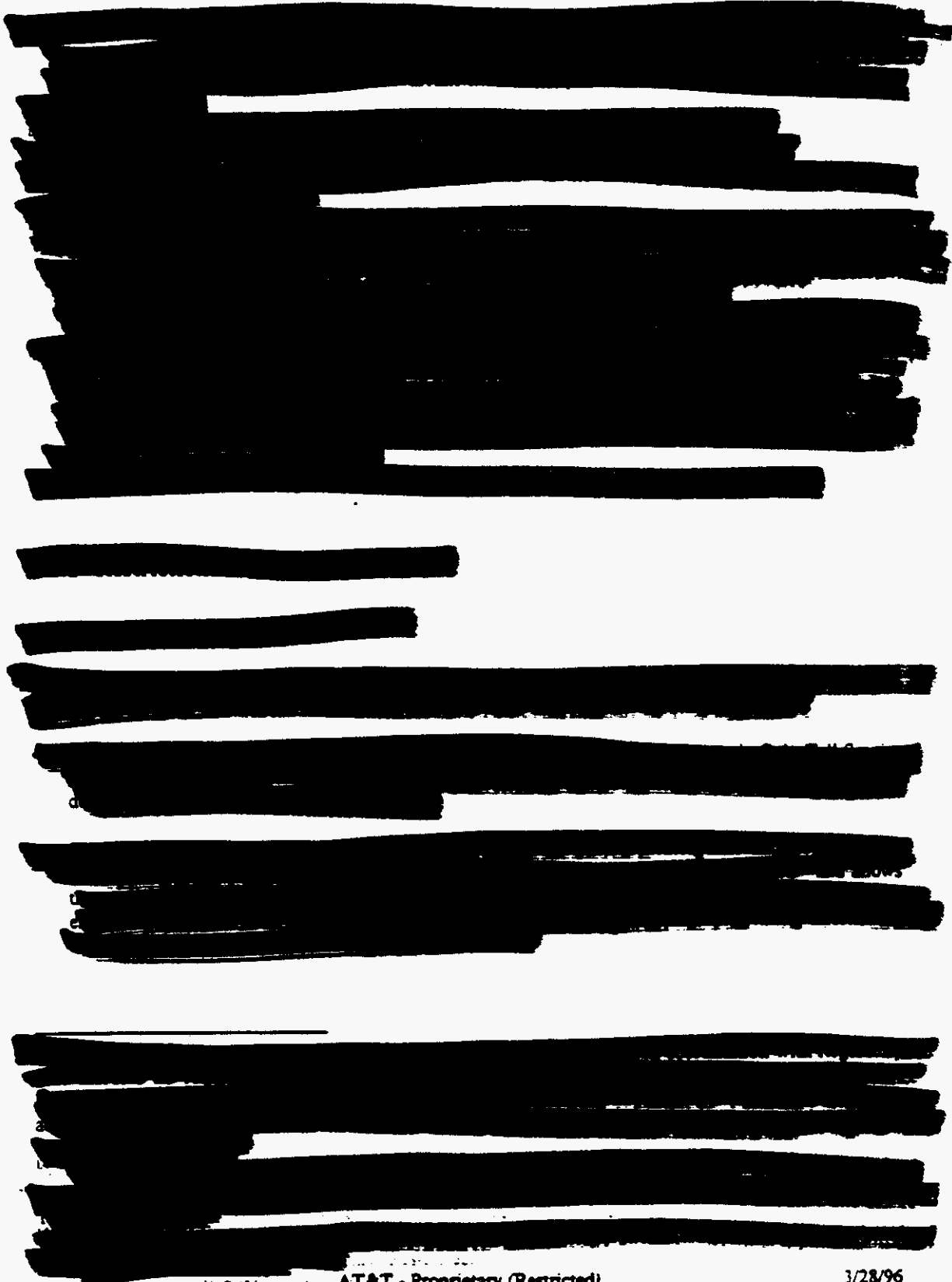
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4 This document will not address LEC Resale scenarios with 0+ intraLATA and 0- calls provided by the
5 LEC.

6 [Redacted]

7 [Redacted]
8 [Redacted]
9 [Redacted]

10 **2.4 Target Market (LCM)**

11 The target market for local OS is the AT&T residential and business customers who dial "0+" or "0-" to
12 request calling card service for intraLATA calls and local operator services in both the LEC Service
13 Resale and Loop Resale environment.

14 [Redacted]
15 [Redacted]
16 [Redacted]
17 [Redacted]

1 **2.5 Local Operator Service and Call Types (TAD, LCM)**

2 **2.5.1 Customer Access to Local Operator Services**

3 The call types that will be handled by AT&T operators are those which are dialed with the following
4 prefixes: 0+, 0-, 00-, and 01+ This document addresses local operator services available to customers
5 when dialing with prefixes of 0+(intraLATA) and 0- (refer to preceding "Scope" section and footnote on
6 1+ and 01+ prefixes in the earlier "Overview" section for more details).

7 **2.5.1.1 0+ (intraLATA) Calls**

8 A 0+ dialed domestic call can be dialed 0+ 7/10 digits.¹⁷ ¹⁸ [REDACTED]
9 [REDACTED] the caller can enter
10 their AT&T honored calling card or elect to bail out [REDACTED]
11 [REDACTED] If the customer enters a calling card number, the call will proceed in the
12 normal manner. [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]

16 **2.5.1.2 0- Call**

17 A 0- call is a call that reaches an AT&T operator on a seizure only basis. The 0- call is dialed to obtain
18 operator assistance in setting up a call, or for other assistance which may or may not be directly related to
19 a particular call. For the 0- call, the AT&T operator obtains the forward number / called number since it
20 has not been dialed by the customer.
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]

25 ¹⁷ 0+ calls can reach AT&T from an access line presubscribed to another IC/IXC if prefixed with an
26 AT&T access code 10XXX (for example, 102880 or 10102880).

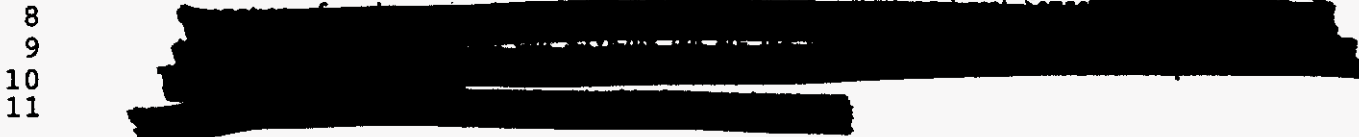
27 ¹⁸ Interchangeable NPAs within the future will do away with 7-digit dialing.
28 [REDACTED]
29 [REDACTED]
30 [REDACTED]
31 [REDACTED]
32 [REDACTED]
33 [REDACTED]
34 [REDACTED]
35 [REDACTED]

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5 **2.5.2 Local Operator Services Features**

6 The following operator services calls²⁰, available to customers when dialing with prefixes of
7 0+(intraLATA) and 0-, have been assessed by the Local Operator Service Technical team.



12 In addition, there are other calls that involve special types of services, i.e., Busy Line Verification /
13 Emergency Interrupt (also known as Busy Line Interrupt) (BLV/EI)²¹, Emergency Agency Calls,
14 Emergency Trace, and Operator Transfer Service. These calls are described in the following subsections
15 of this section.



20 **2.5.2.1 Automated Calling Card Service**



1 **2.5.2.2 Automatic Sequence Calling**

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[REDACTED]

13 **2.5.2.3 Automated Sequence Dialing, Following Operator Release**

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[REDACTED]

19 **2.5.2.4 Person-to-Person Call**

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[REDACTED]

23 **2.5.2.5 Station-to-Station Call**

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[REDACTED]

26 **2.5.2.6 Collect Call**

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[REDACTED] ... be charged to the

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1 **2.5.2.7 Bill-to-Third Call**

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5 **2.5.2.8 Operator Assisted or APS Calling Card Service**

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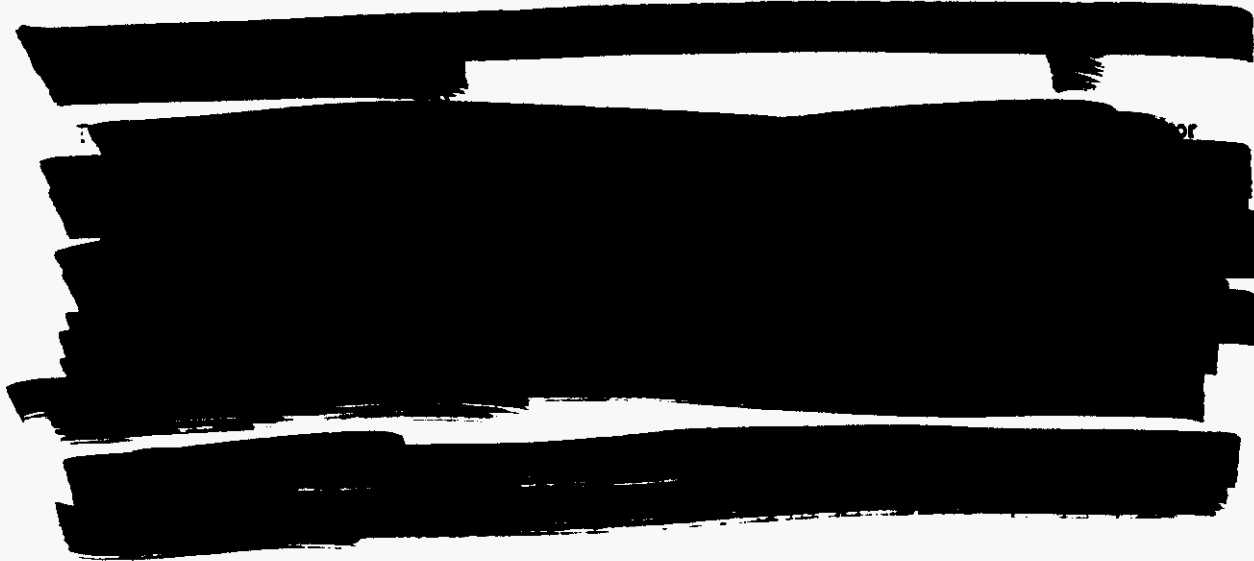
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23 **2.5.2.9 Busy Line Verify/Emergency Interrupt**

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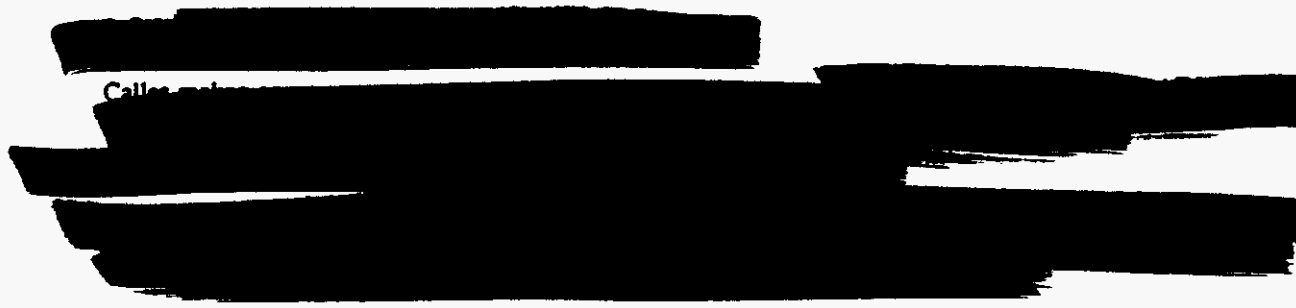
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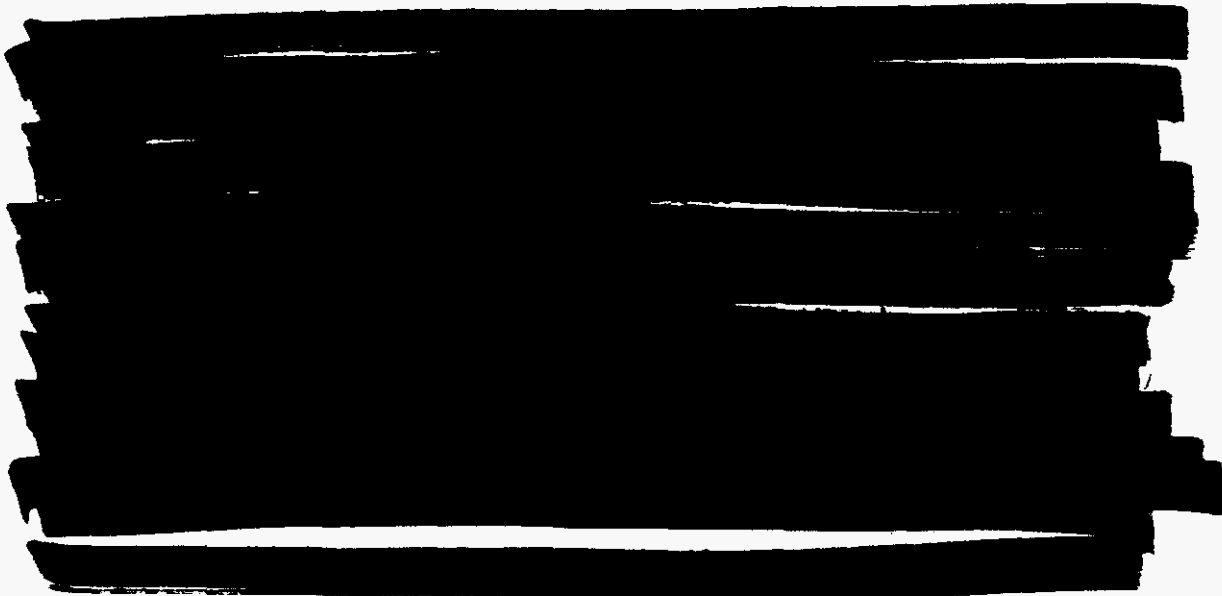
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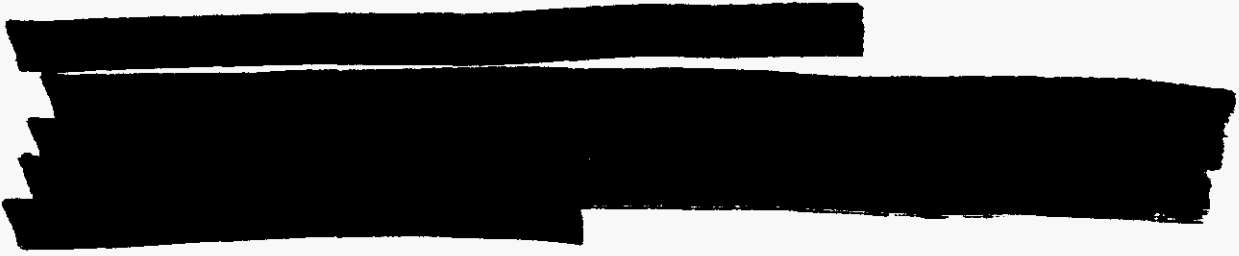
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2.5.2.14 Time and Charges

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Time and Charges (T&C) is a service where an AT&T operator provides a verbal quotation of the elapsed time and associated charges for a call. The AT&T operator must request the customer to stay on the line after the call. The AT&T operator performs a specific key action to record the request. At the conclusion of the call, OSPS notifies an AT&T operator, not necessarily the original operator, of the time and charges for the call. The AT&T operator reports the time and charges to the calling party, called party, or the third party as requested.

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2.5.2.15 Rate Quote

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The Rate Quote feature allows the AT&T operator to answer callers' questions regarding the charges that they are billed for a specific call type at a specific time.

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3. HIGH-LEVEL ARCHITECTURE DESCRIPTION (LCM)

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The AT&T SESS® OSPS is used to service the local operator and calling card traffic.

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When AT&T Local Service is offered via LEC Service Resale, the LEC End Office will route the local operator services (OS) requests of AT&T customers to an AT&T SESS® OSPS. (Additional details provided in the "Access Architecture" sub-section of the "TECHNICAL DESCRIPTION" section.)

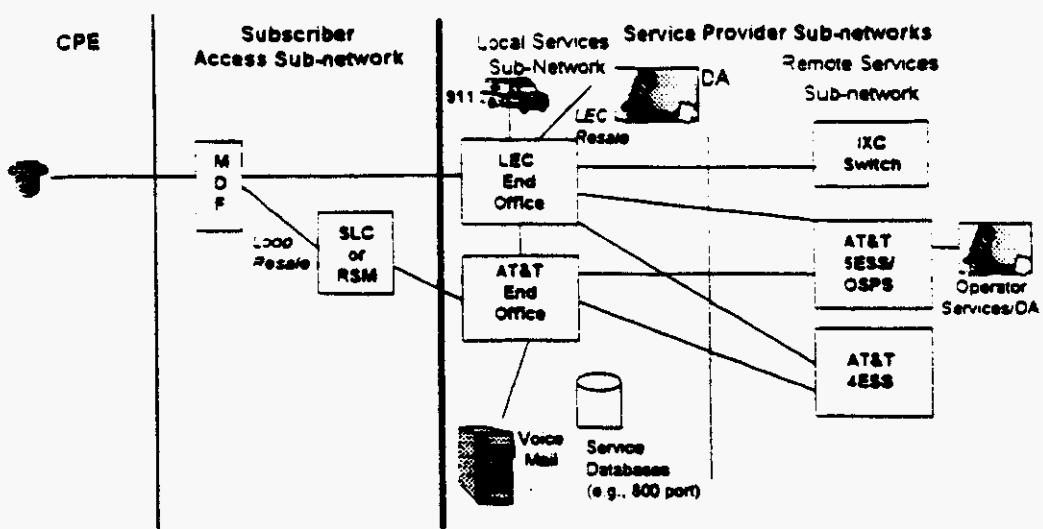
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When AT&T Local Service is offered via Loop Resale (i.e. the facility build scenario), LEC loops will be separated at the Main Distributing Frame (MDF) at the LEC End Office and transported to AT&T's Local End Office (SESS®). The SESS® End Office will route the local operator traffic to an AT&T SESS® OSPS. (Additional details provided in the "Access Architecture" sub-section of the "TECHNICAL DESCRIPTION" section.)

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When AT&T Local Service is offered via the End Office of a CAP (Competitive Access Provider), local operator traffic is also routed to the AT&T SESS® OSPS.

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Figure 1 - End-to-End Telephone Architecture

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Local operator services will be provided by an existing AT&T 5ESS® OSPS presently handling AT&T interLATA consumer originated traffic in a designated geographic area. All customer traffic originating from an AT&T Local End Office will have their automatic call processing handled by the serving 5ESS® OSPS or will be interflowed to one of the Mega-system OSPSs for operator intervention. Billing and call completion will still be handled by the serving 5ESS® OSPS. Presently, AT&T is employing a Mega-system network utilizing the OSPS interflow feature capability (refer to FEATURE INTERACTION section for additional details.).

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4. TECHNICAL DESCRIPTION

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4.1 Access Architecture (LCM)

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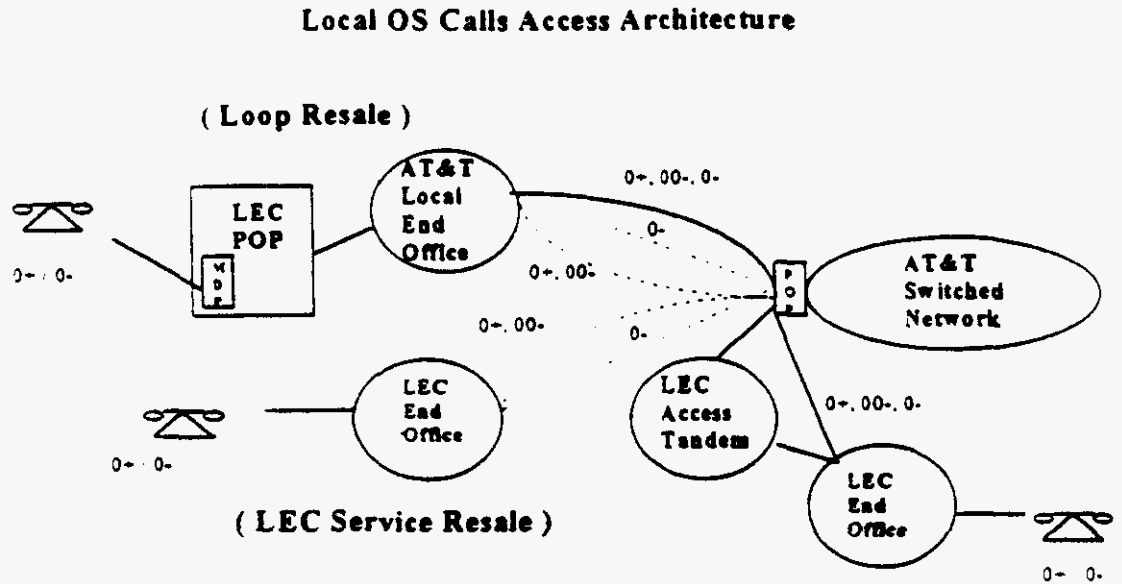
This Technical Plan considers the offering of local Operator Services (OS) in both the *Loop Resale* and *LEC Service Resale* environment. There is a specific access arrangement required by each of the two environment in bringing the local OS calls from the LEC End Office in LEC Service Resale and AT&T Local End Office in Loop Resale) to the AT&T 5ESS® OSPS. The access architecture for each of the two scenarios are summarized here. The rest of the local OS architecture and call flows (see "Call Flows" section) are identical for both cases.

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In the *Loop Resale* environment, connectivity from the customer premise to the AT&T Local End Office is provided through the loop leased from the incumbent LEC to the AT&T Local End Office. The leased loop terminates at the LEC's MDF (Main Distributing Frame) and is handed off to AT&T transport equipment to the AT&T Local End Office. In the *LEC Service Resale* environment, POTS service is provided on leased LEC facility. See Figure 2 below. In the *Loop Resale* environment, the 5ESS® switch is used as the AT&T Local End Office. AT&T customers dial 0+0 calls to obtain local operator and calling card services.

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Figure 2: Local OS Calls Access Architecture

(The dash lines show trunking arrangement if 0- traffic is routed via separate trunk group. Current view is to route 0+, 00-, and 0- via same trunk group.)

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In the *LEC Service Resale* environment, the LEC End Office may be an AT&T JESS® switch, an AT&T IA ESS™ switch, AT&T No. 5 Crossbar switch, or other vendor switches. AT&T customers dial 0+/0- to obtain local operator and calling card services. The provisioning of a new class of service (e.g. a new line class code - rate center (LCC-RAX) for the JESS® OSPS or an equivalent scheme for other switches) may be used to separate AT&T customers and route their OS calls to the AT&T JESS® OSPS platform. One or more line class code - rate centers (LCC-RAXs) must be created for use in provisioning AT&T local customers whose line terminates at the LEC end-office switch. The LCC-RAX combinations specifying the allowable line characteristics combinations to support service offerings to AT&T local customers at the JESS® end office. Each of the AT&T LCC-RAXs is set up to enable proper routing of the customer-dialed OS calls to the AT&T JESS® OSPS. The set of AT&T LCC-RAXs is defined on each end-office switch with AT&T local customer line terminations. Each AT&T customer is assigned only one of the LCC-RAXs.

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1 In the future, *LEC Service Resale* can be easier if regulatory ruling is in place to require incumbent LECs
 2 to unbundle services such as local operator service, or to implement the capability for customer to specify
 3 a local service provider.

4 This access architecture has synergy with CAT (Consolidated Access Traffic) as a longer term Access
 5 Architecture with some issues to resolve (refer to section 6.6).

6 **4.1.1 LEC Service Resale Access Architecture (LCM)**

7 The following information is an assessment of the feasibility for routing 0+ (intraLATA) and 0- calls from
 8 AT&T local customer lines to an AT&T 5ESS® OSPS to service operator-assisted calls in the LEC
 9 Service Resale environment.

10 In this section, "AT&T local customer lines" refer to those lines at the LEC End Office when the
 11 subscribers have become AT&T customers in the LEC Service Resale environment.

12 **4.1.1.1 Routing of AT&T 0+ (IntraLATA) and 0- Traffic to the AT&T OSPS**

13 To route the local Operator Services traffic to the AT&T 5ESS® OSPS in the LEC Service Resale
 14 environment, the LEC end office must have the ability to distinguish between AT&T and LEC customer
 15 lines, and to route the calls to the AT&T 5ESS® OSPS. In the following sections, the AT&T switches are
 16 examined to assess the feasibility.

17 **4.1.1.1.1 5ESS® End-Office Switch**

18 AT&T local customer lines will be provisioned with a unique Line Class Code, unique Screening Code
 19 (SC), and Digit Analysis Selector (DAS). This provisioning serves the purpose of separating the AT&T
 20 local "0+" and "0-" traffic from the LECs. For local "0+" calls, a unique Route Index is provided to route
 21 via a dedicated AT&T OSPS trunk group with EIS (Extended Inband Signaling) signaling to a specified
 22 AT&T 5ESS® OSPS. For "0-" calls, a unique Route Index is provided to route via an AT&T OSPS trunk
 23 group dedicated to "0-" calls, and with EIS signaling, to the AT&T 5ESS® OSPS. The non-AT&T lines
 24 are not affected.

25 **4.1.1.1.2 1A ESS™ End-Office Switch**

26 For AT&T 1A ESS™, Line Class Code will NOT be used. AT&T local lines will be provisioned with a
 27 unique Chart in the Chart Class Column translator. This provisioning serves the purpose of separating
 28 the AT&T local "0+" and "0-" traffic from the LECs. For local "0+" calls, a unique Traffic Service
 29 Position route index is used to access the unique AT&T 0+ trunk group. For "0-" calls, a Special Route
 30 Index is used to access the unique AT&T 0- trunk group.

31 **4.1.1.1.3 No. 5 Crossbar Switch**

32 For the AT&T No. 5 Crossbar switch, Line Class Code will NOT be used. Instead, a new Class of
 33 Service, with special routing information to route the "0+" and "0-" calls to an AT&T 5ESS® OSPS, can
 34 be defined for a Vertical Group. AT&T customer lines can be assigned to the Vertical Group for the
 35 special class of service.

1 4.1.1.1.4 Other Vendor End-Office Switch

2 For other vendor switches, similar capability to the above SESS® and / or IA ESST™ are believed to exist
3 since all switches do have such screening and routing capabilities. The terminology may differ, however.

4 4.1.1.1.5 Recording Option Setting

5 The option of "no AMA record" on the LEC switch should be selected so recording is done at the SESS®
6 OSPS. This would imply the LEC and AT&T would have to negotiate some charging arrangement since
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9 4.1.1.2 Class of Service Provisioning and Administration

10 4.1.1.2.1 Defining a New Class of Service

11 One or more line class code - rate centers (LCC-RAXs) must be defined (as described in the preceding
12 section) for use in provisioning AT&T local customers whose line terminates at the LEC end-office
13 switch. The new class of services are one or more line class code - rate center (LCC-RAX) combinations
14 specifying the allowable line characteristics combinations to support service offerings to AT&T local
15 customers at the SESS® end office. Each of the AT&T LCC-RAXs is set up to enable proper routing of
16 the customer dialed OS calls to the AT&T SESS® OSPS. The set of AT&T LCC-RAXs is defined on each
17 end-office switch with AT&T local customer line terminations. Each AT&T customer is assigned one of
18 the LCC-RAXs.

19 4.1.1.2.2 Provisioning

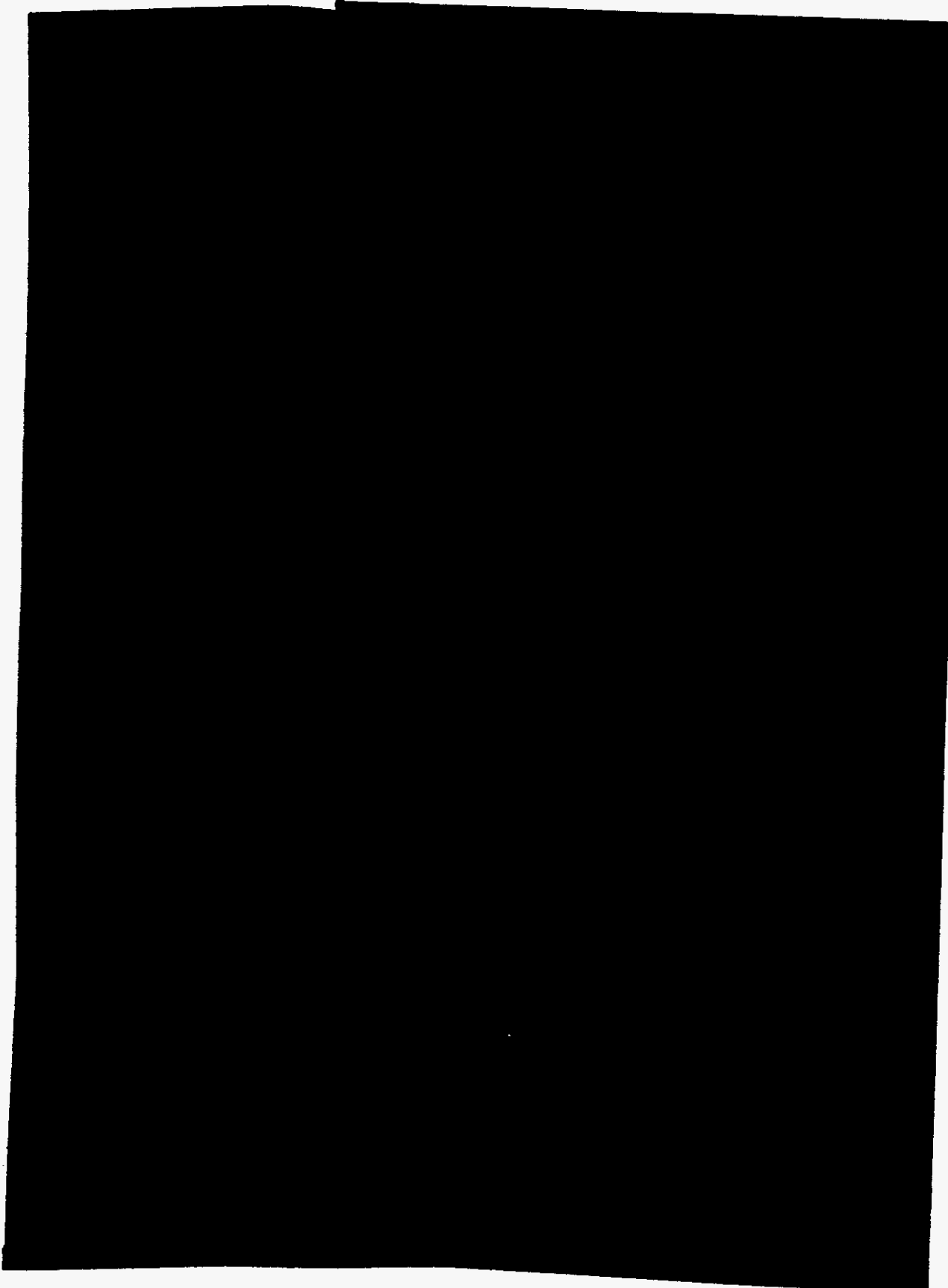
20 When a customer is provisioned for AT&T local service, the customer line must be provisioned with the
21 AT&T class of service code to enable the proper switch screening and routing of AT&T local "0+" and "0-"
22 traffic to AT&T SESS® OSPS.

23 4.1.1.2.3 Administration

24 An important factor in the Administration of the new class of service is that the LEC has correctly
25 provisioned the customer with one of the AT&T class of service codes. To the LECs, this represents an
26 additional step in their OAM&P process.

27 When a customer terminates local service subscription with AT&T, the line must be provisioned to
28 disable the switch screening and routing previously provisioned to route AT&T local "0+" and "0-" traffic
29 to AT&T SESS® OSPS. This can be accomplished through service order provisioning.

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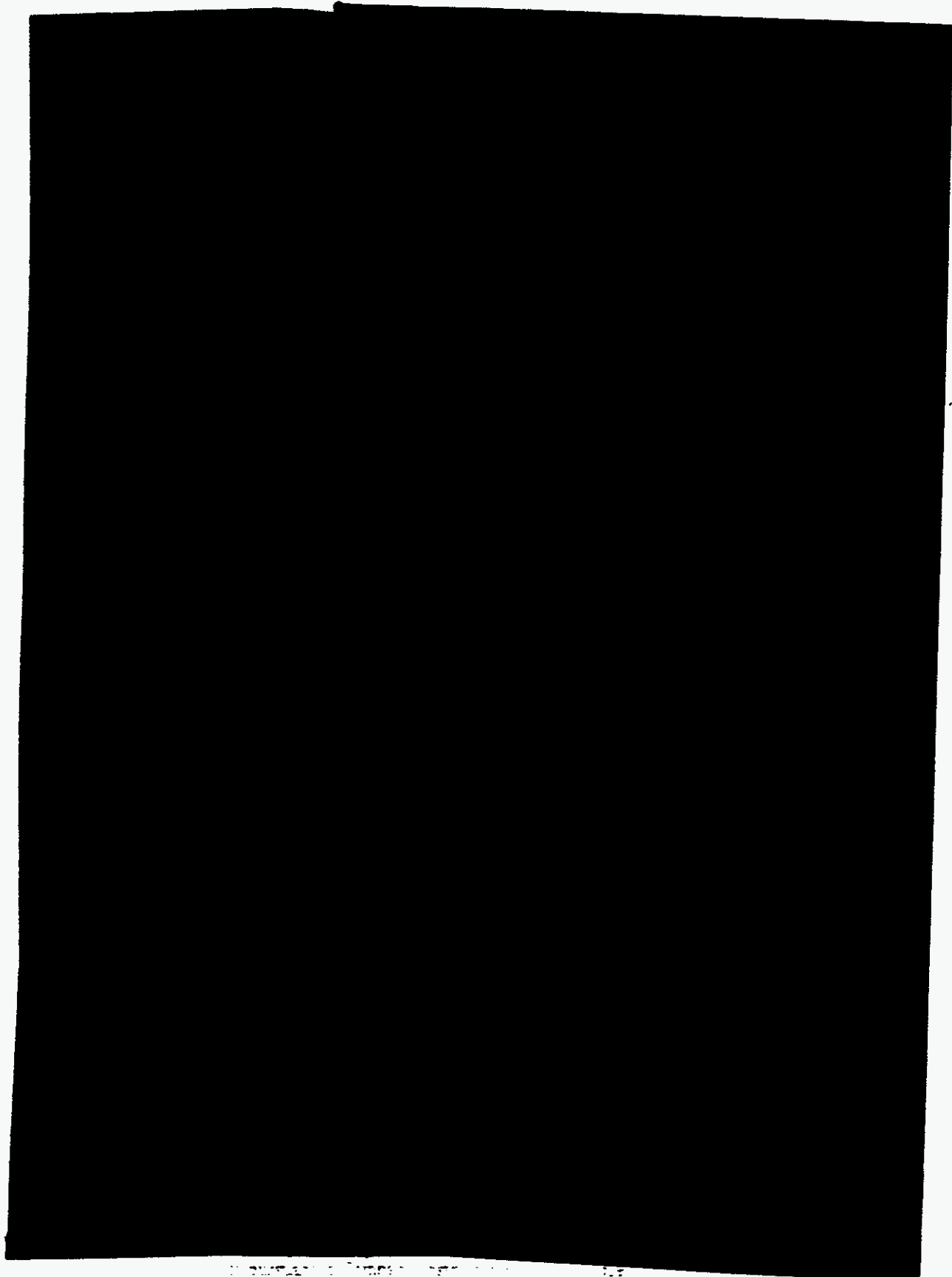
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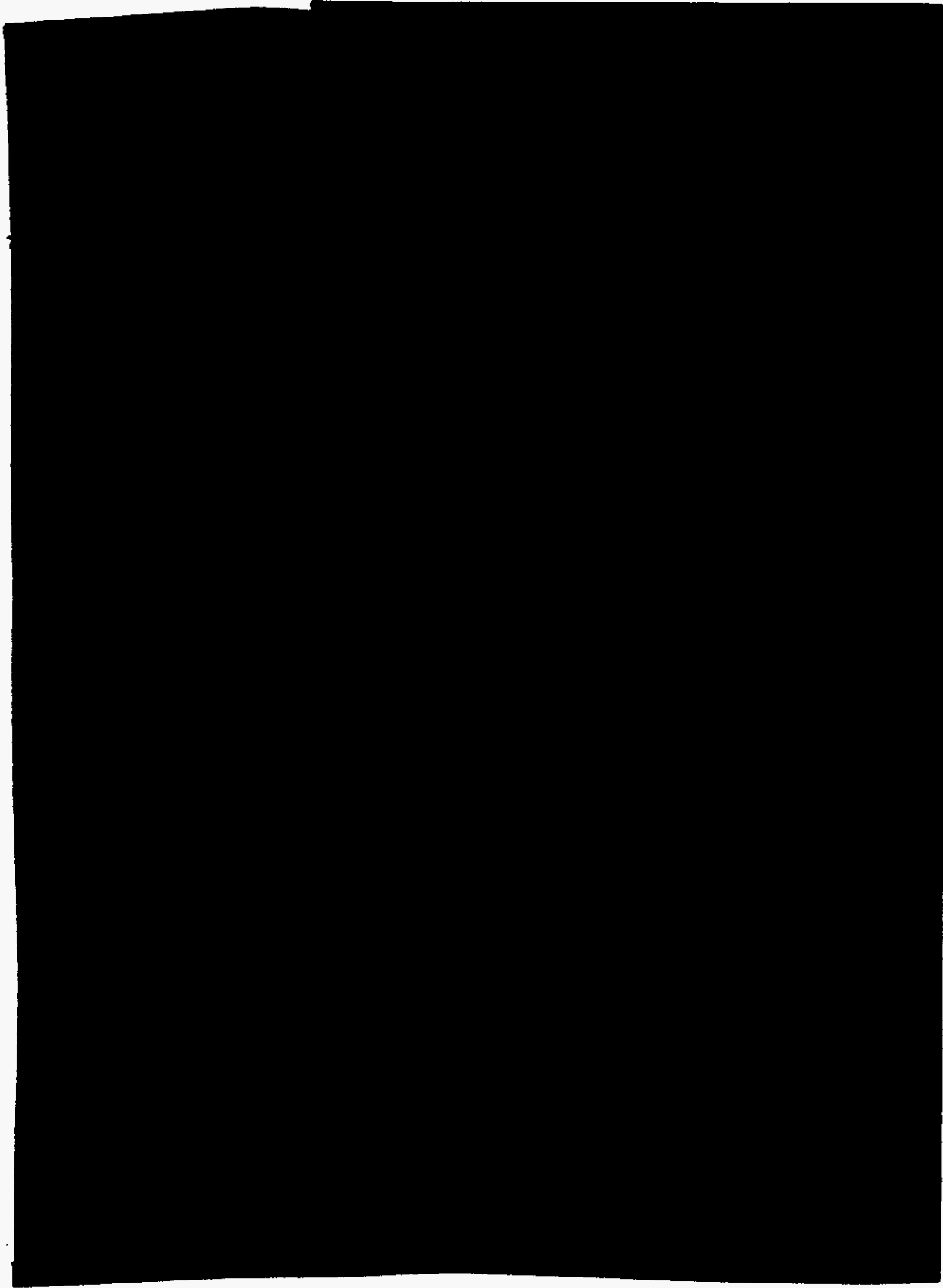
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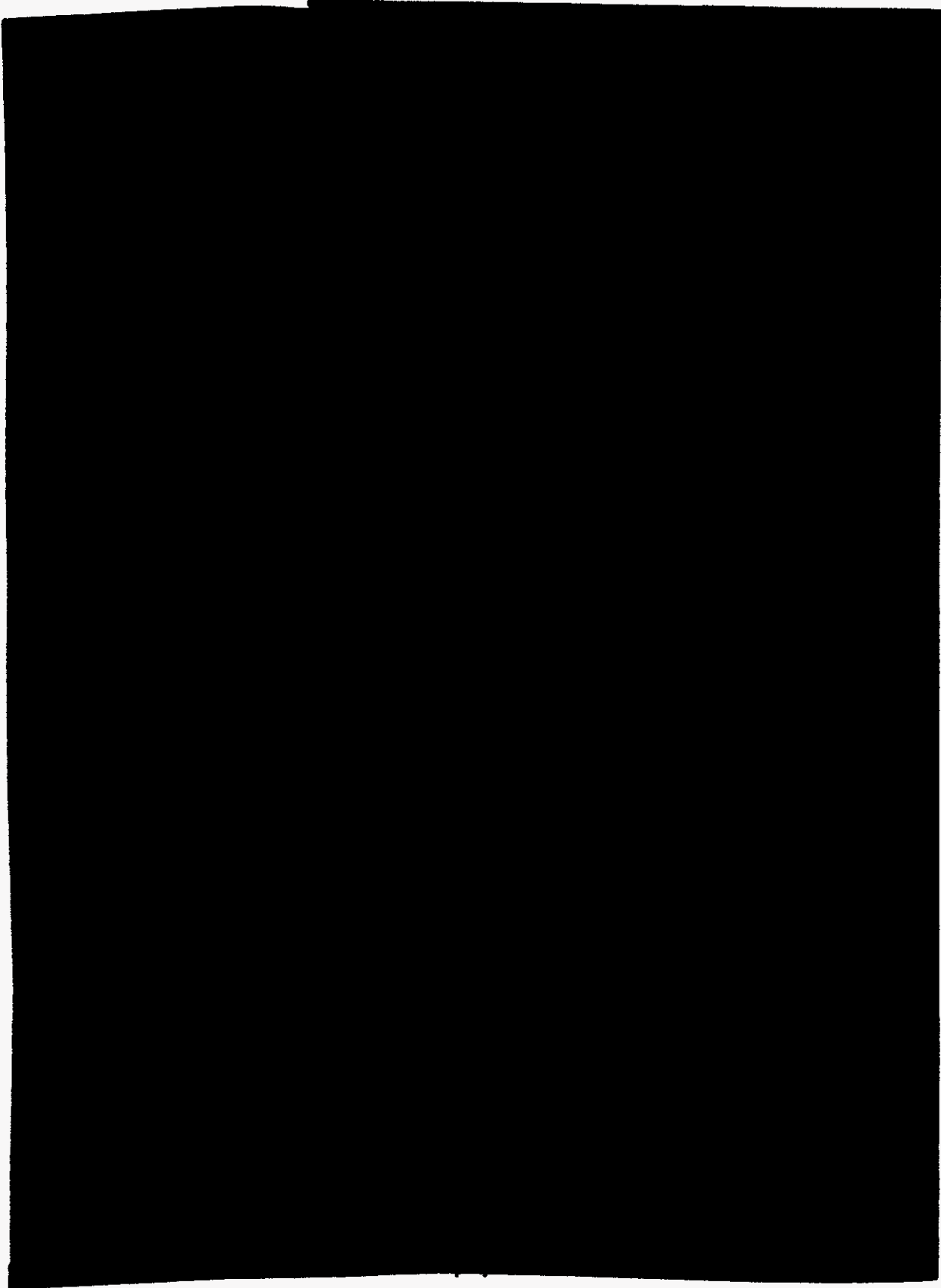
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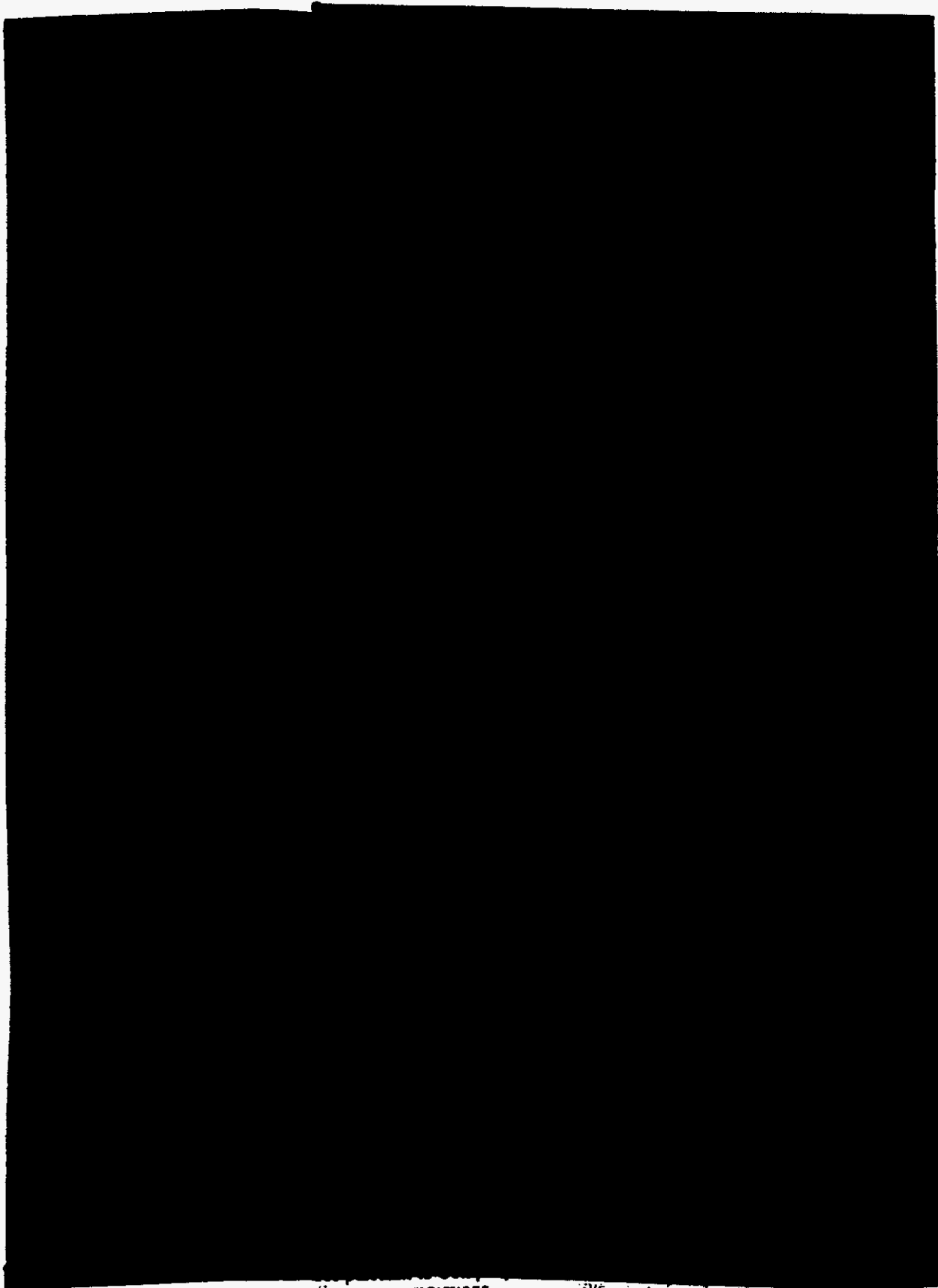
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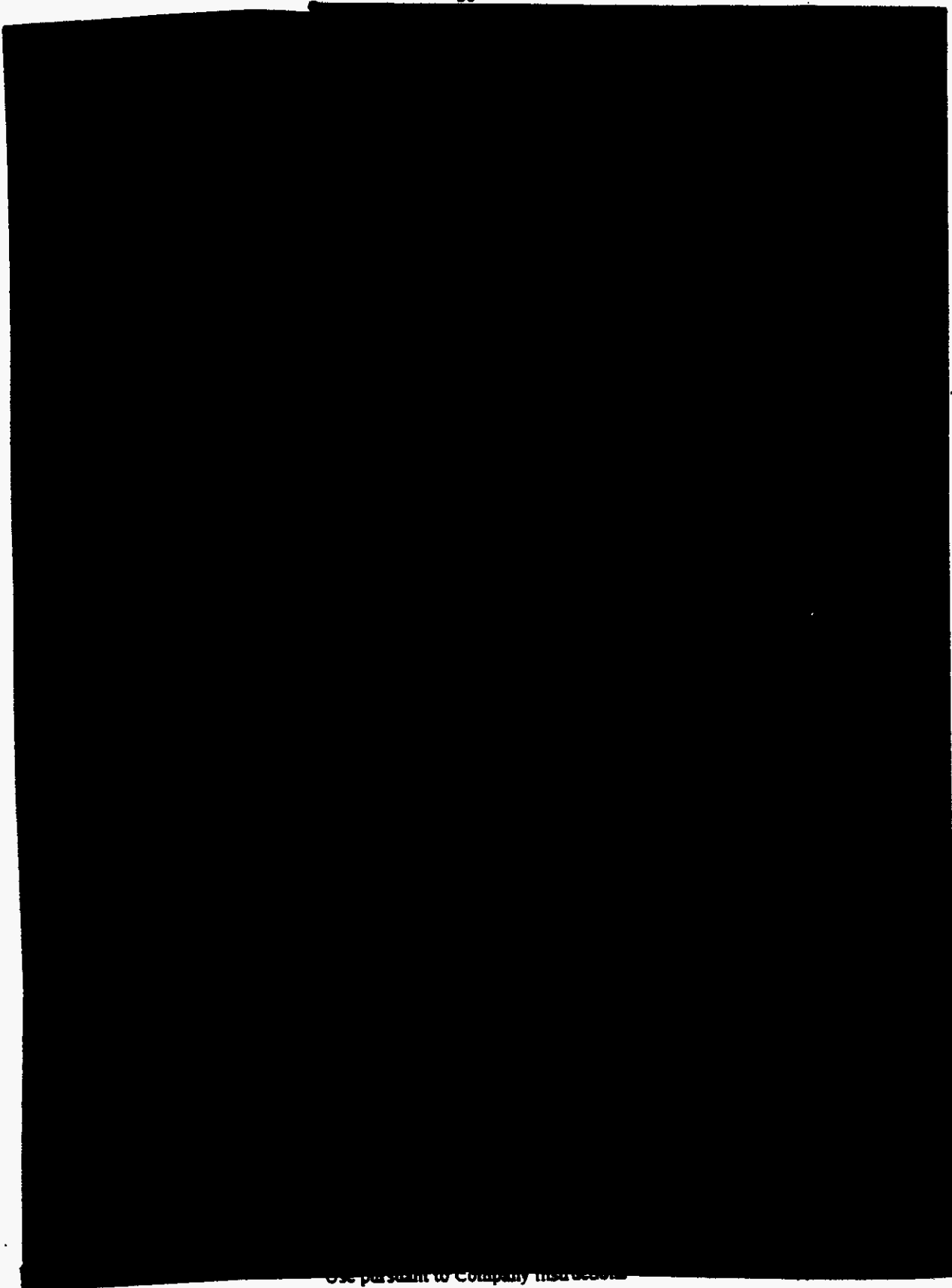
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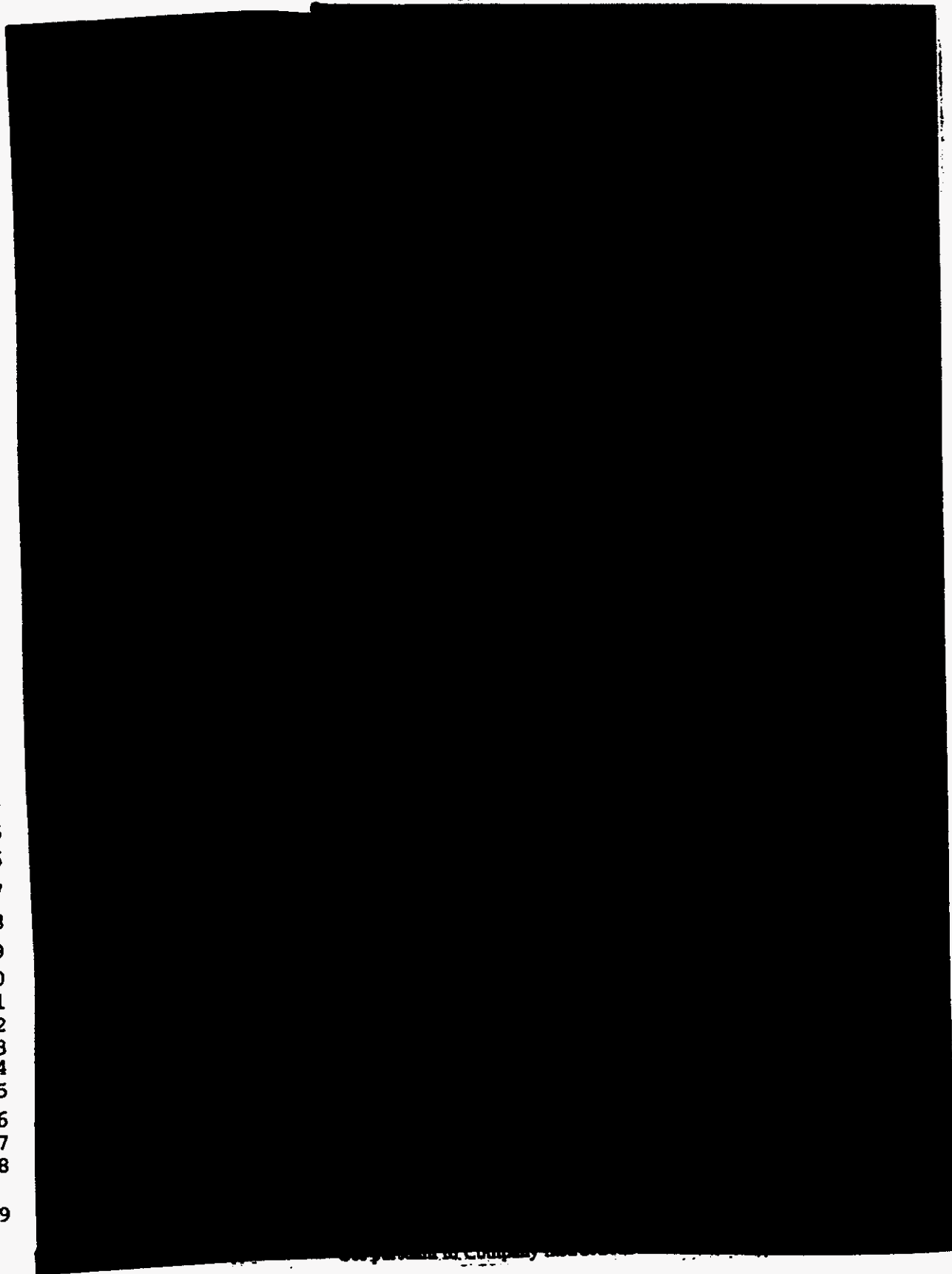
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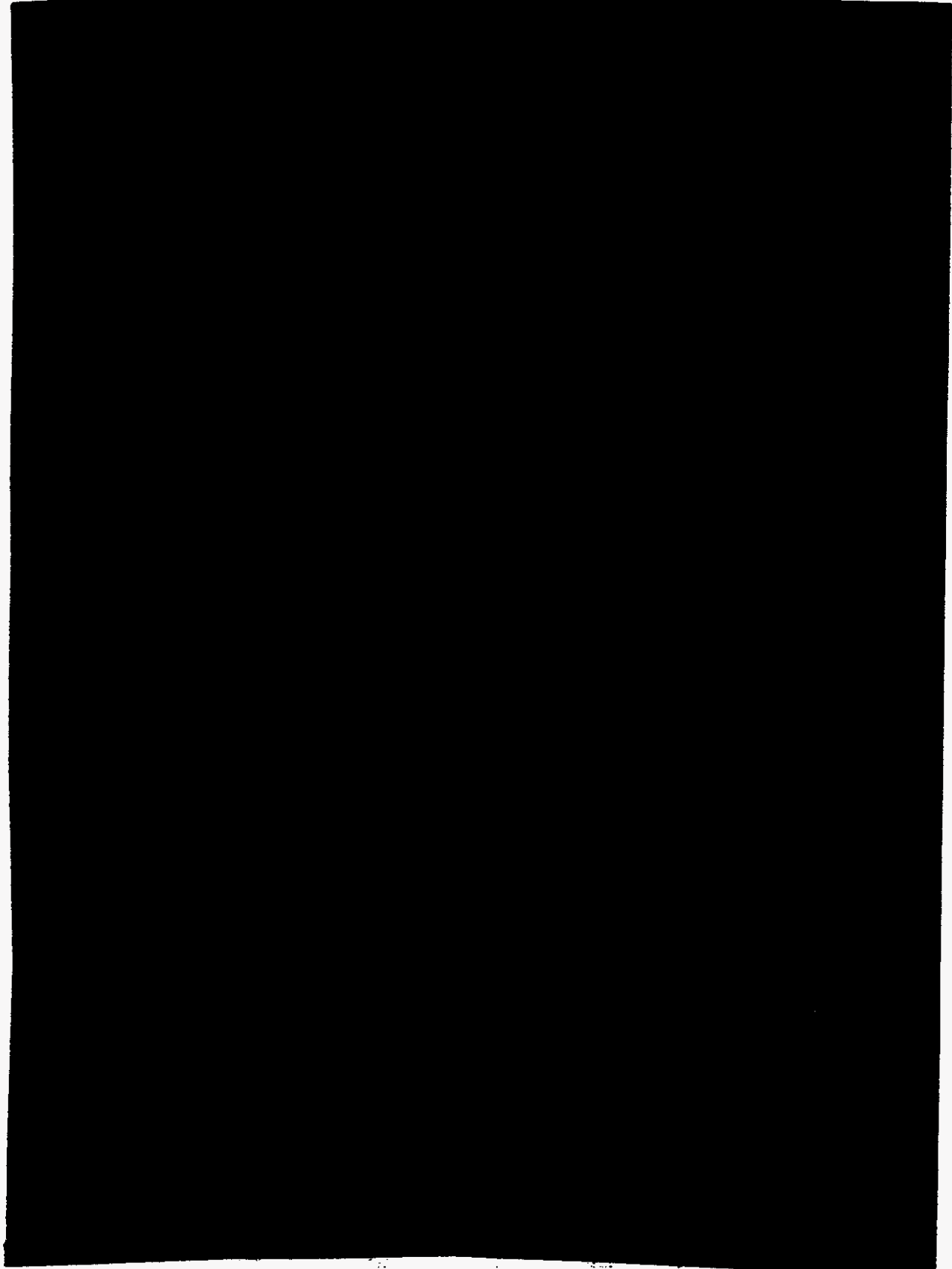
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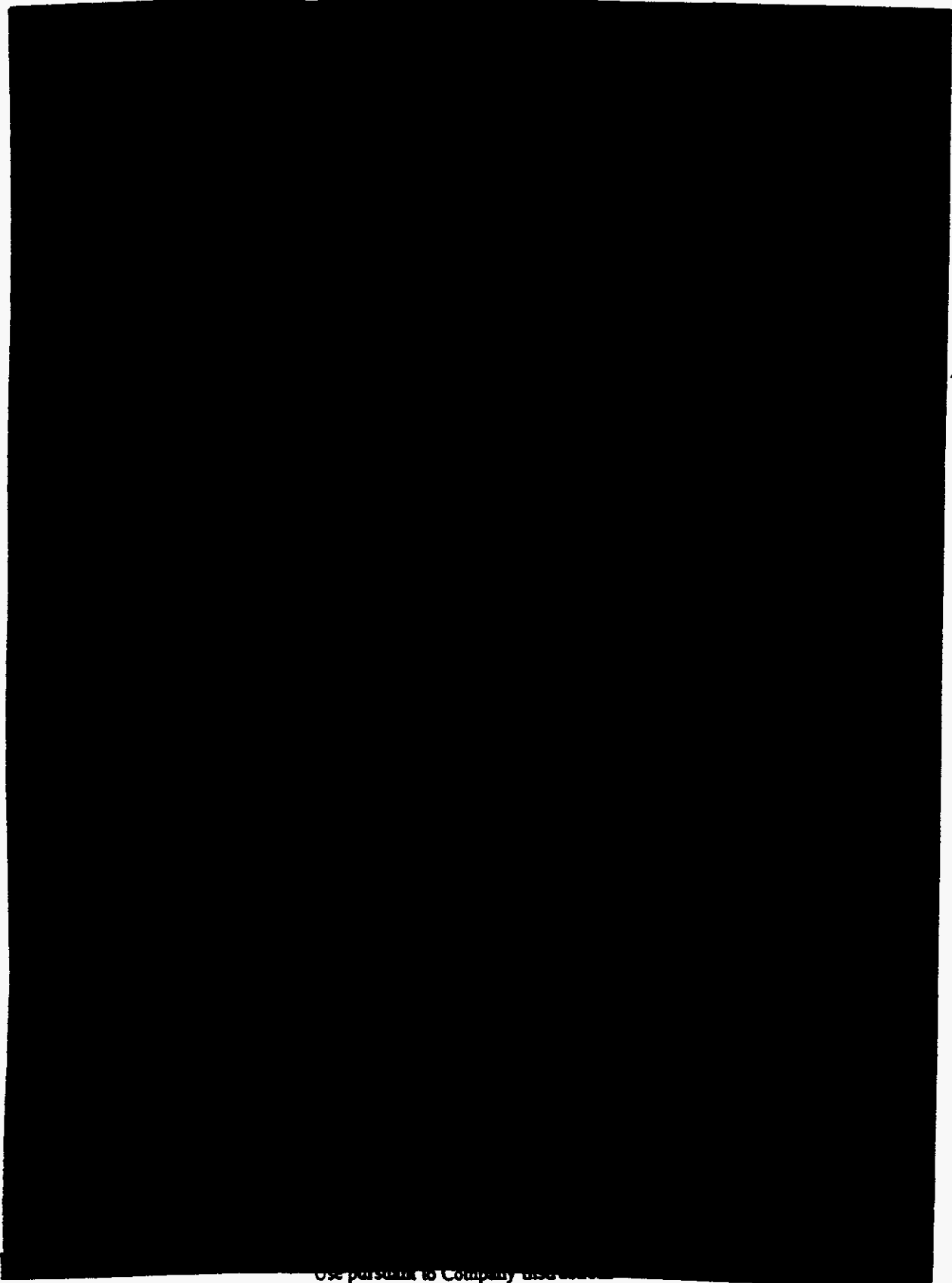


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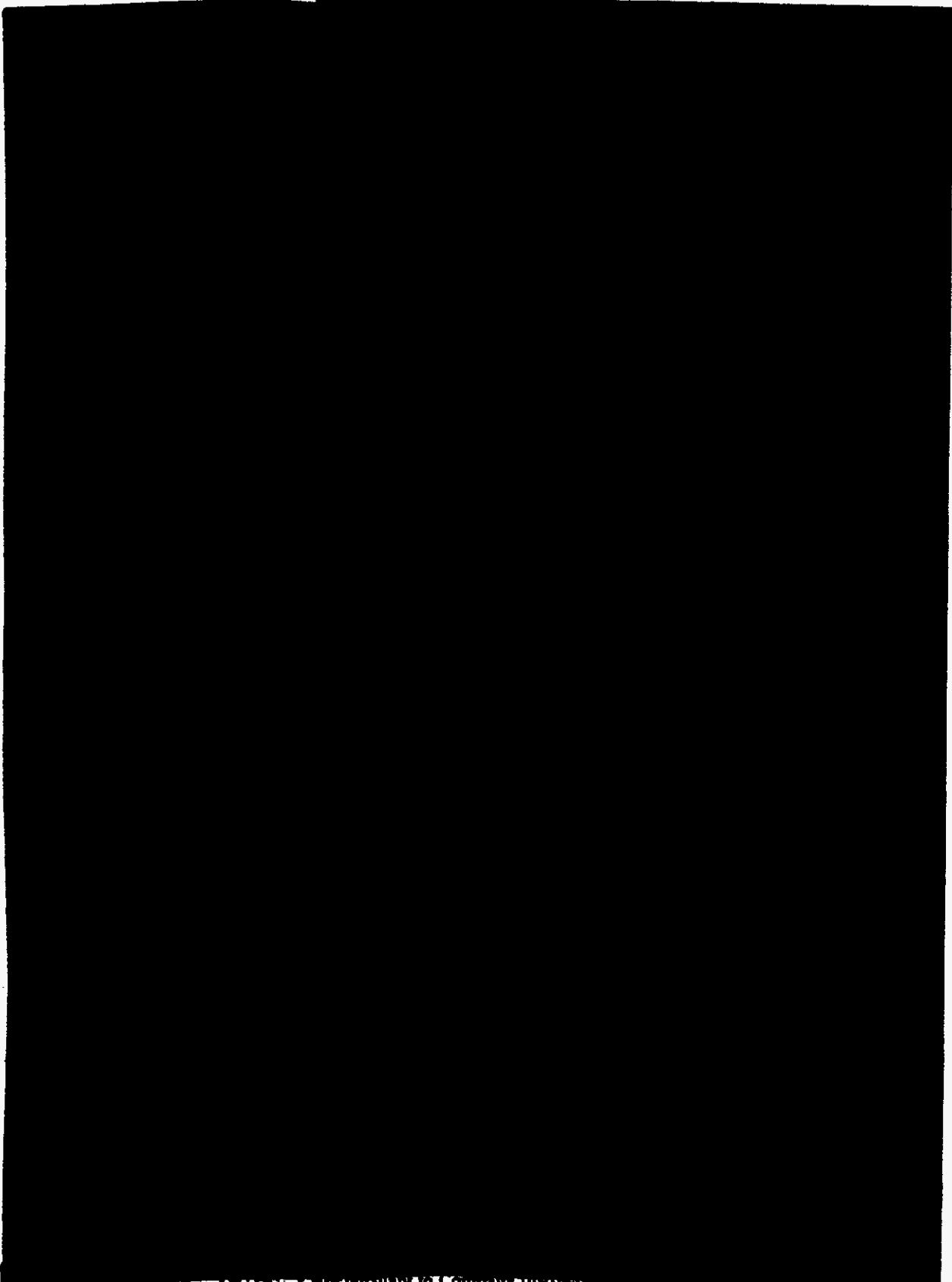
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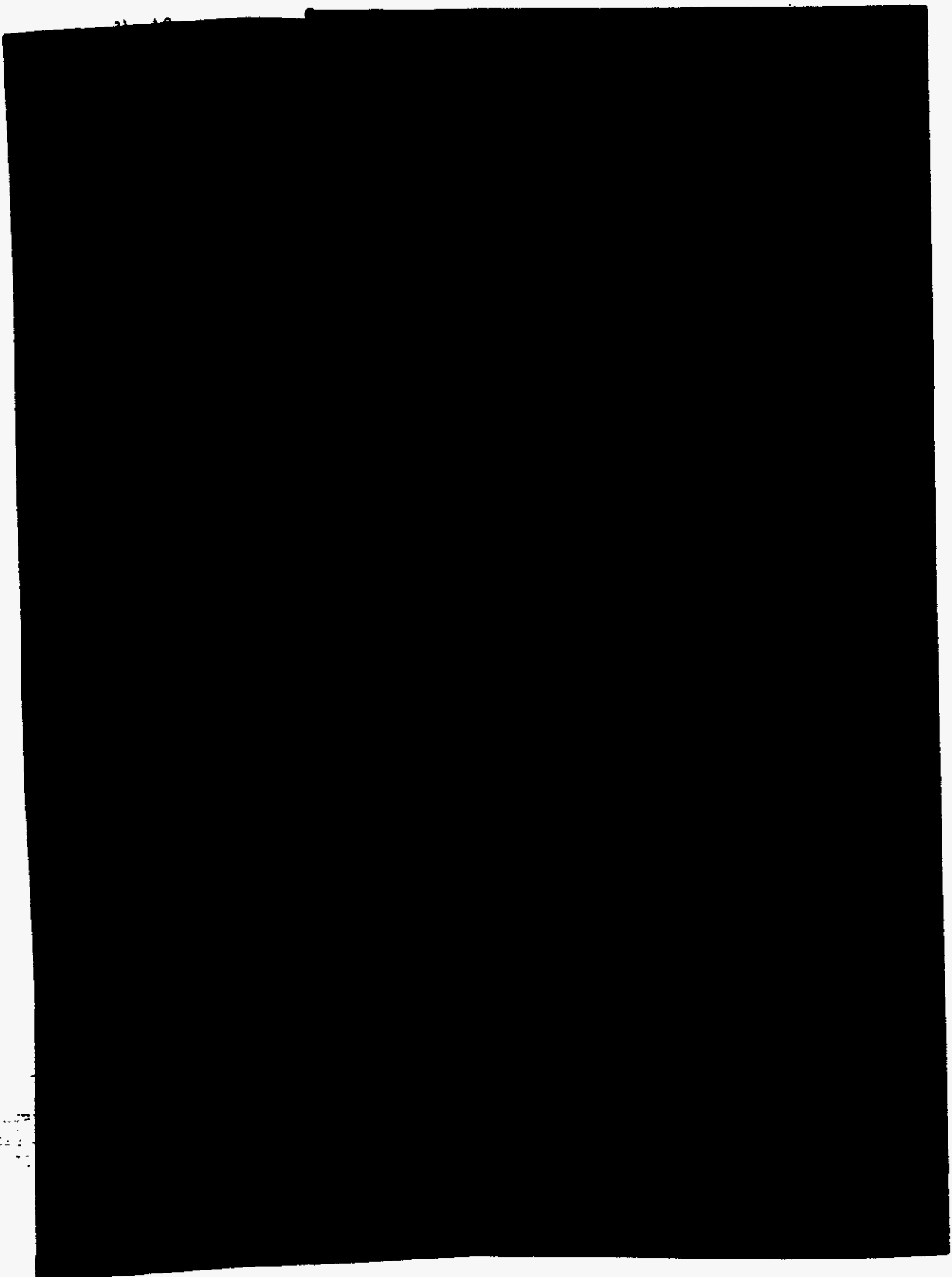
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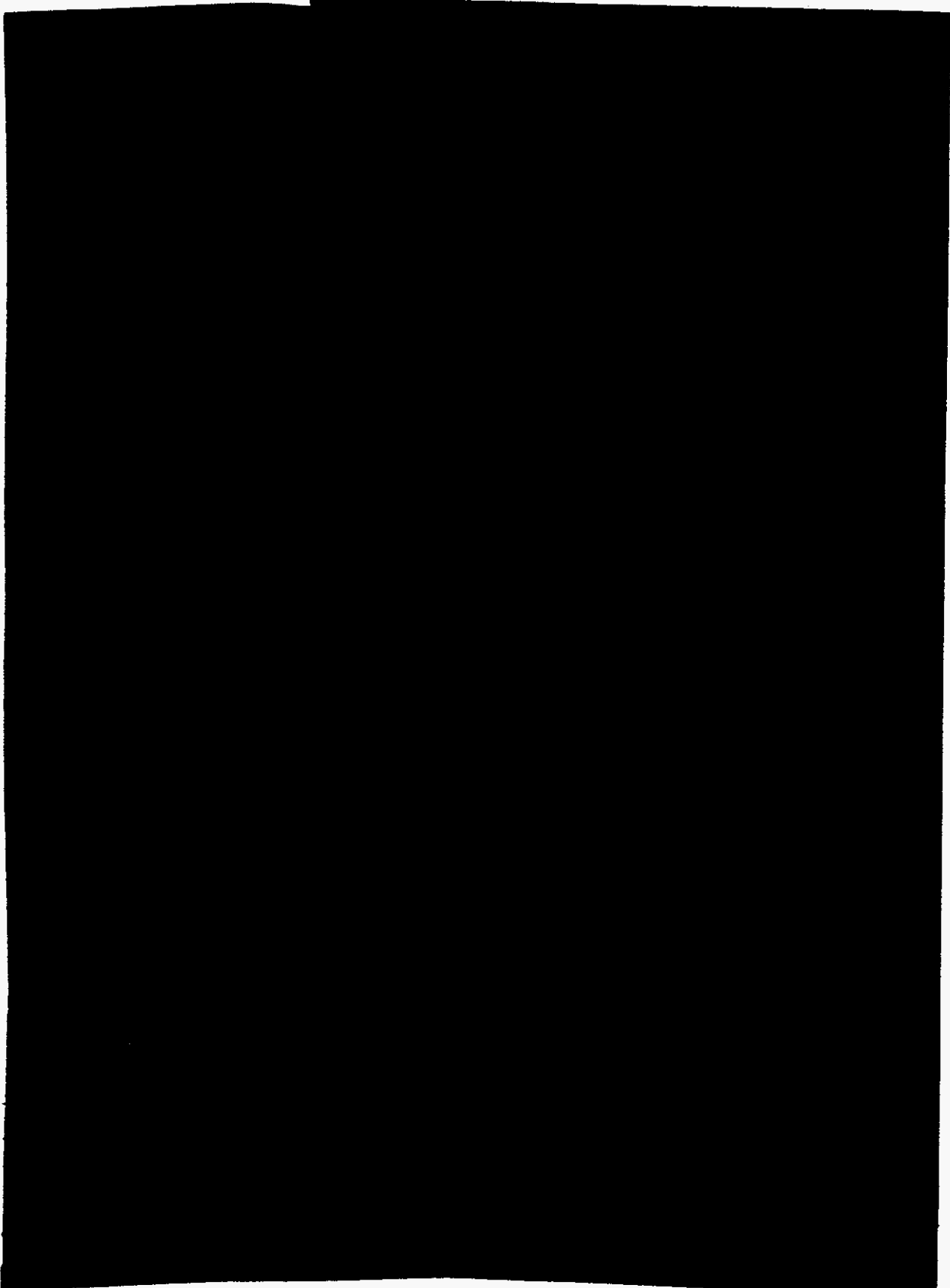
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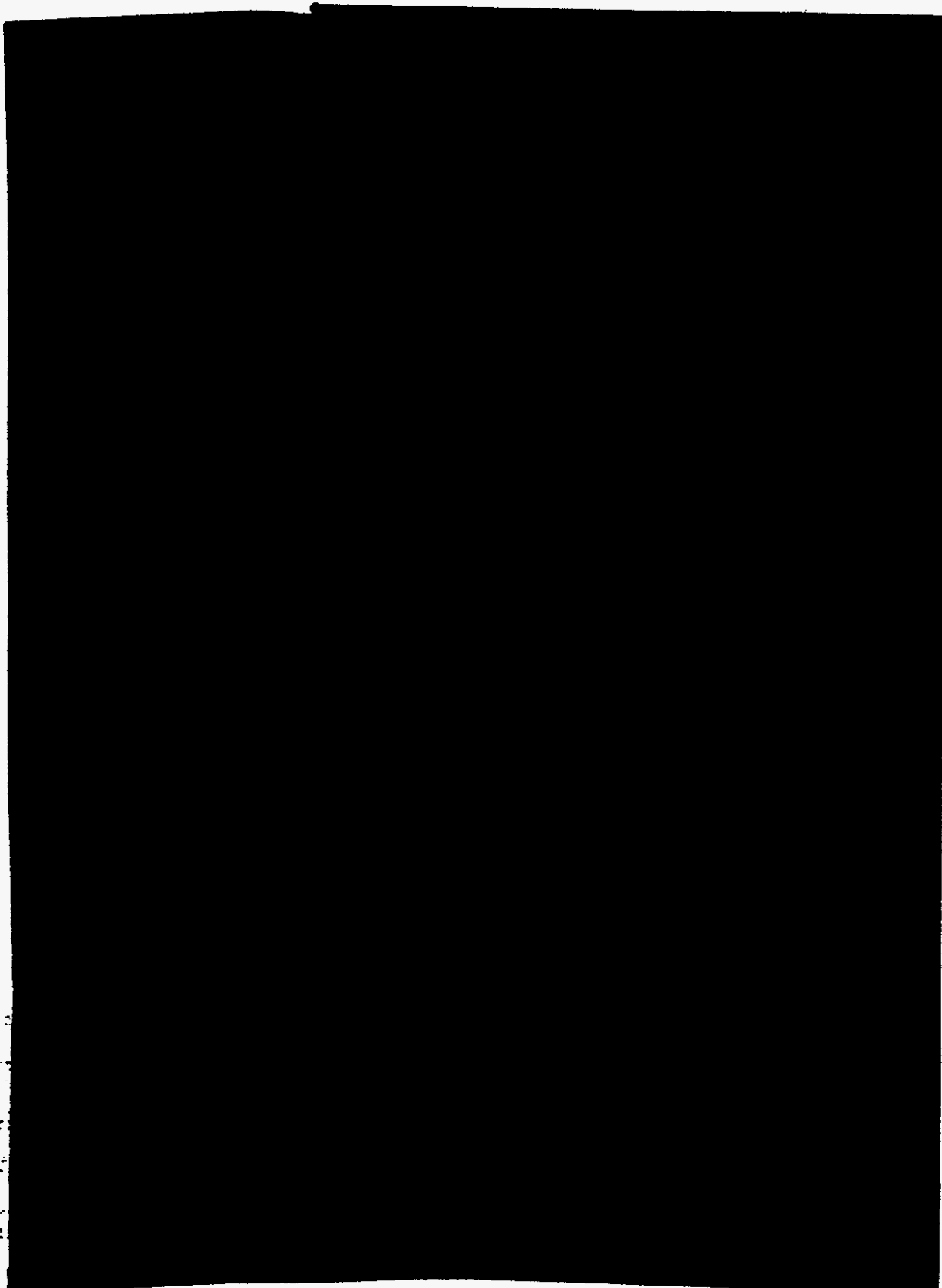
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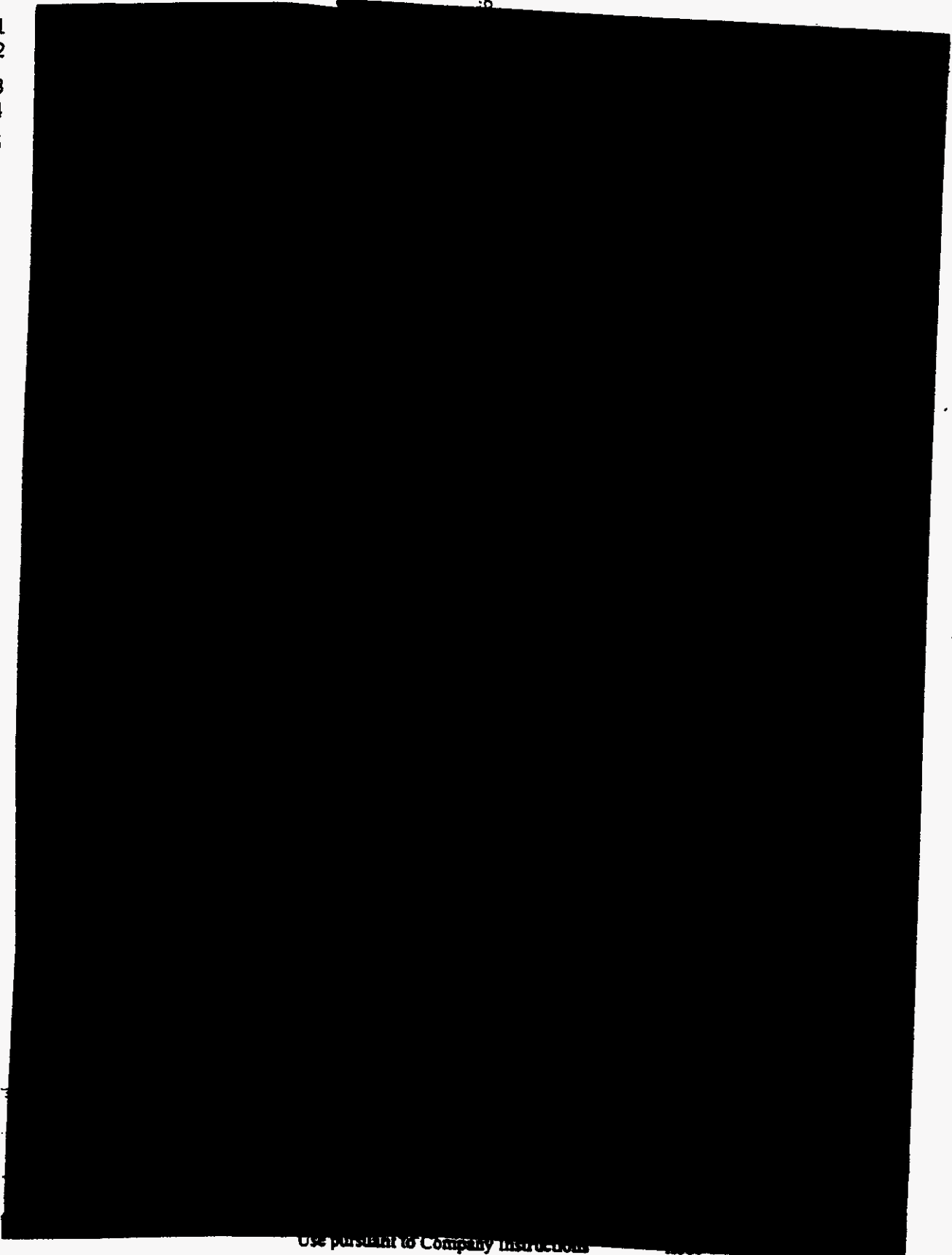
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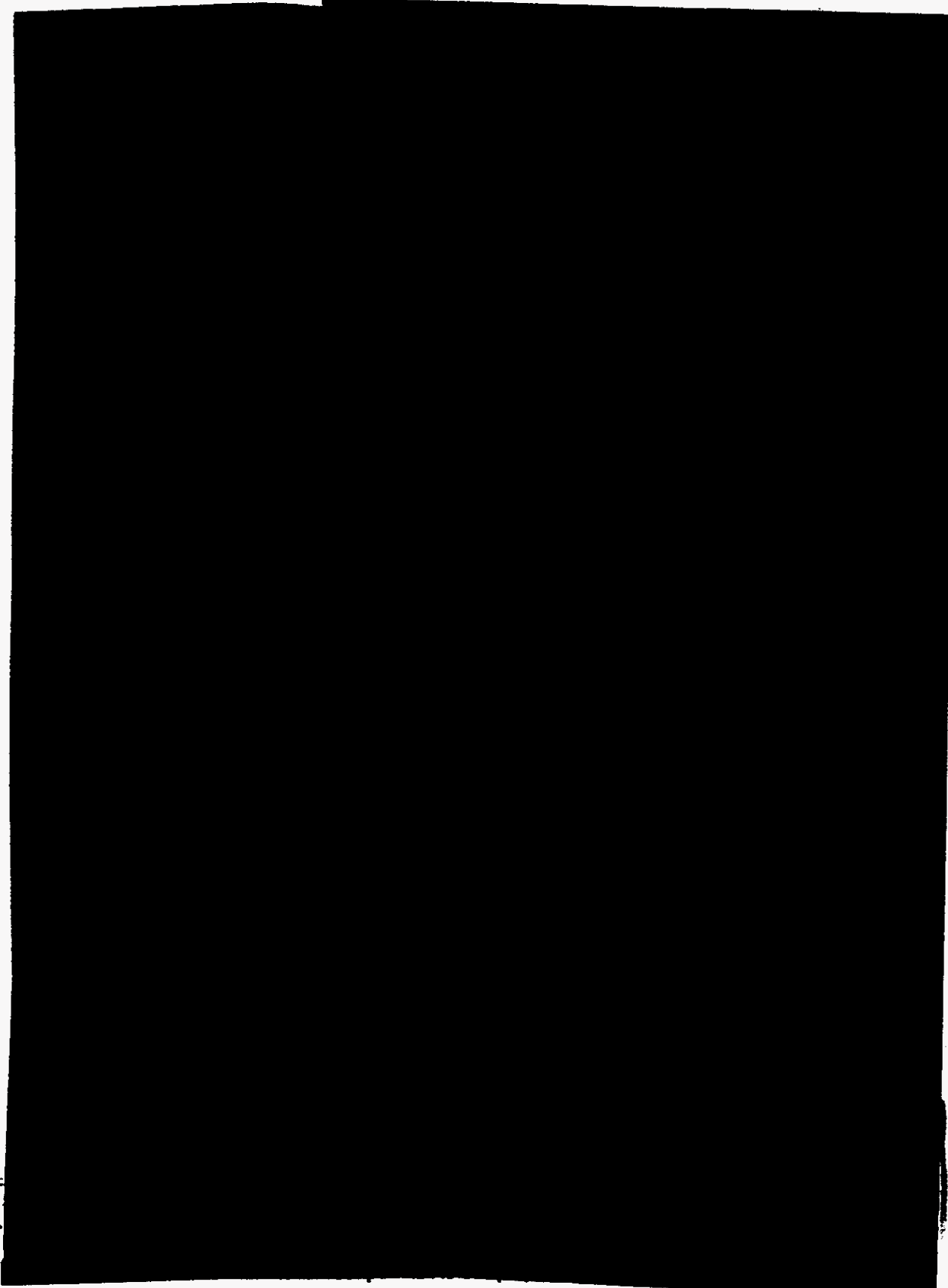
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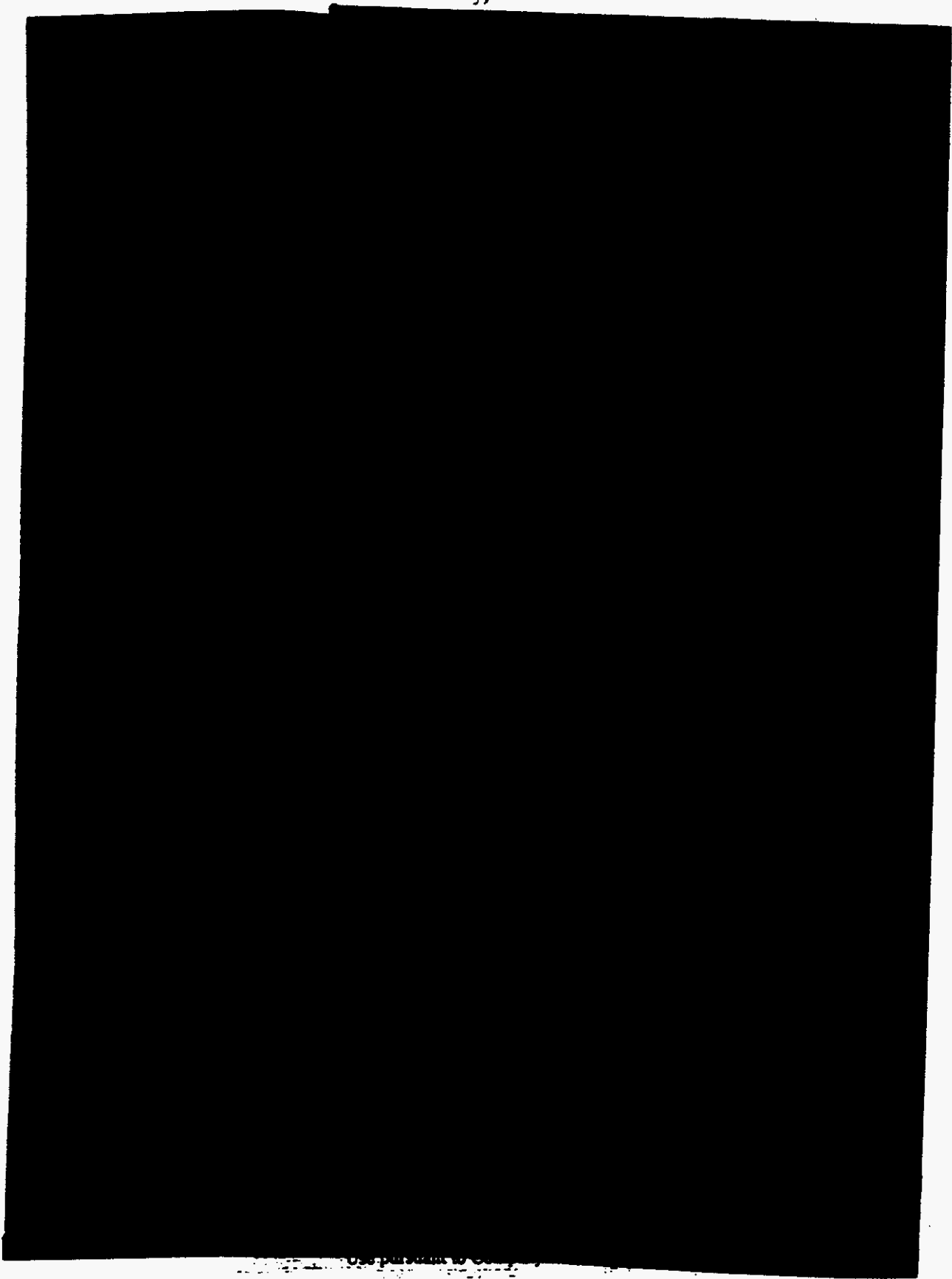
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emergency call log

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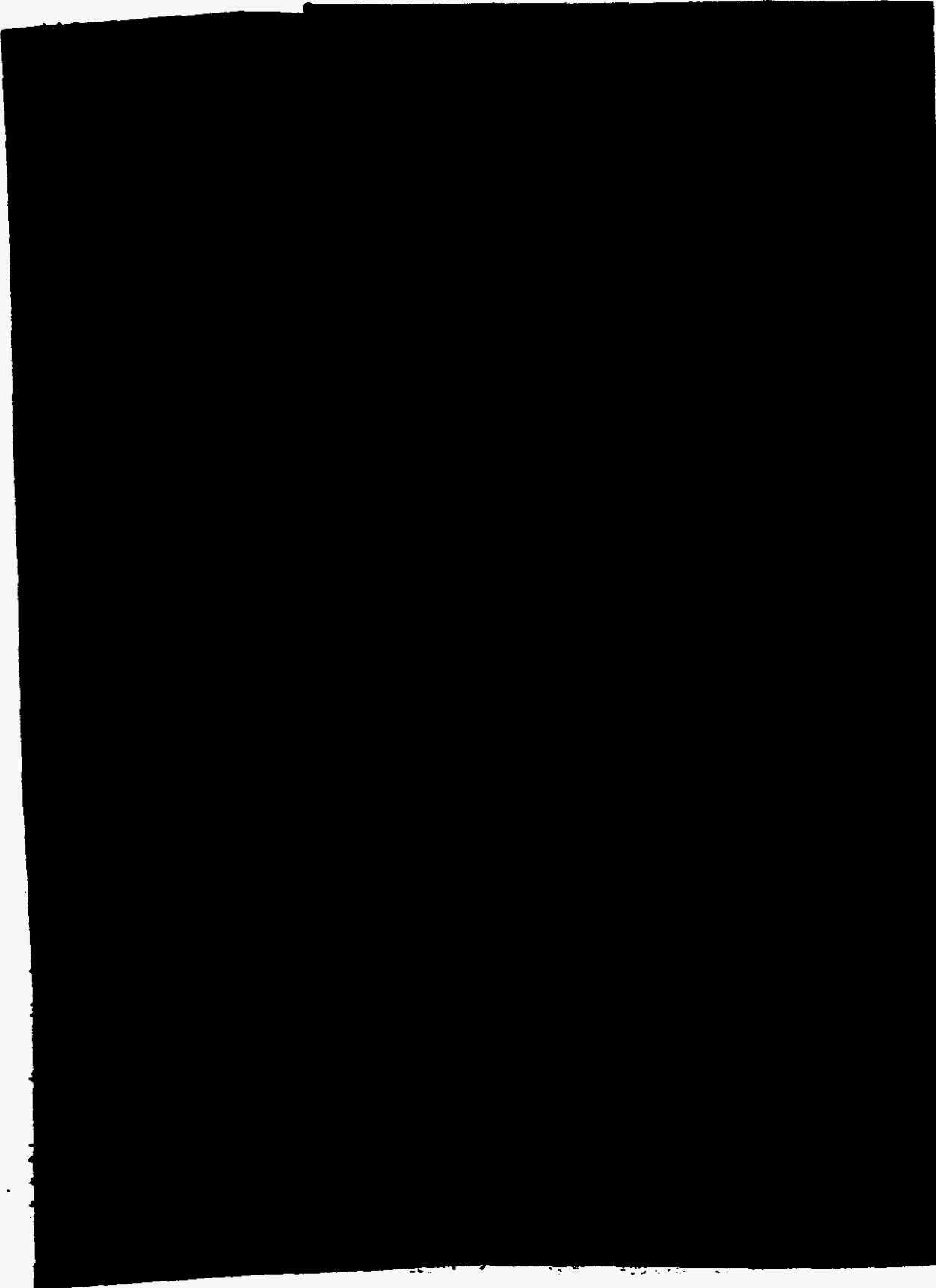
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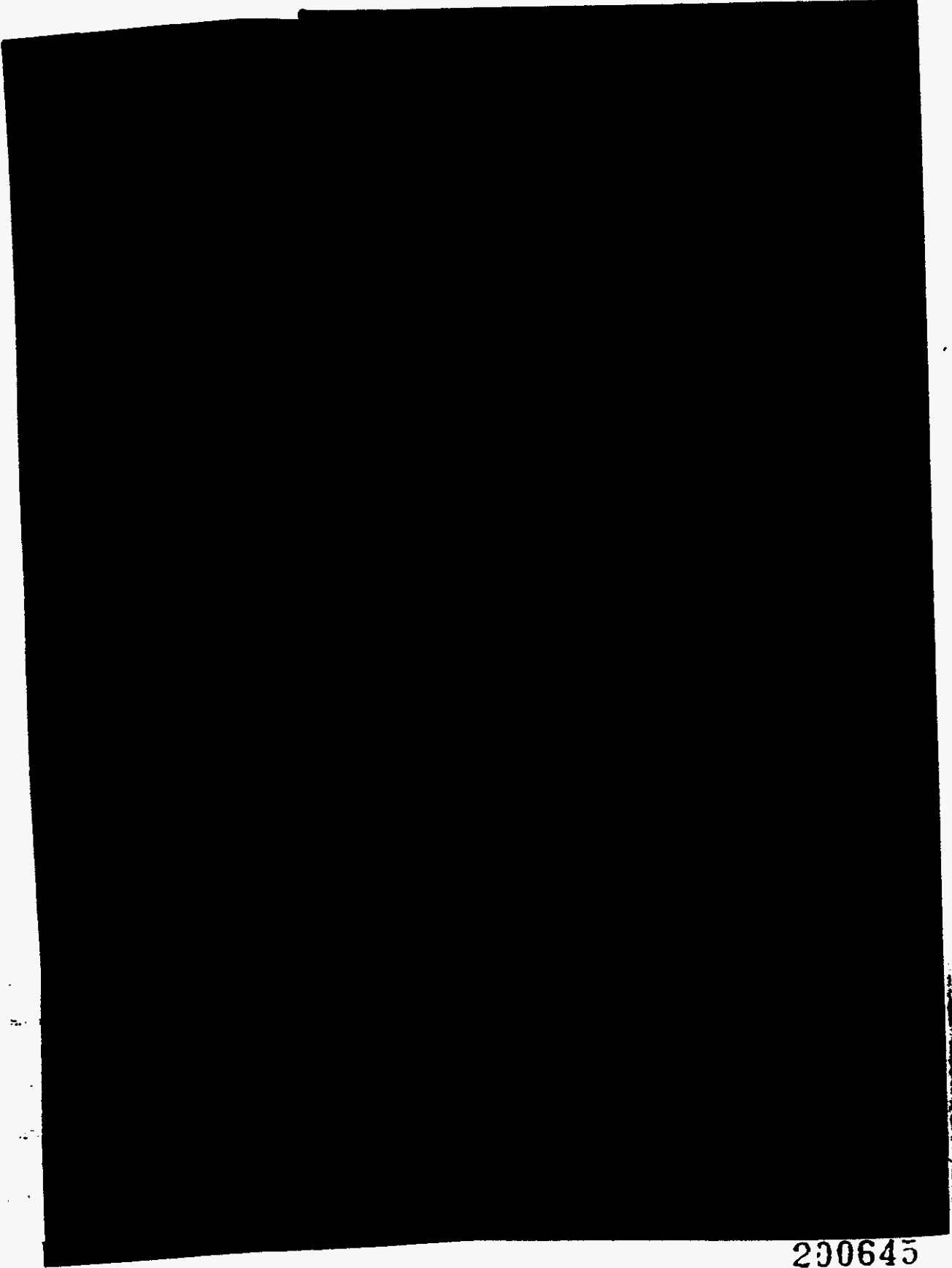
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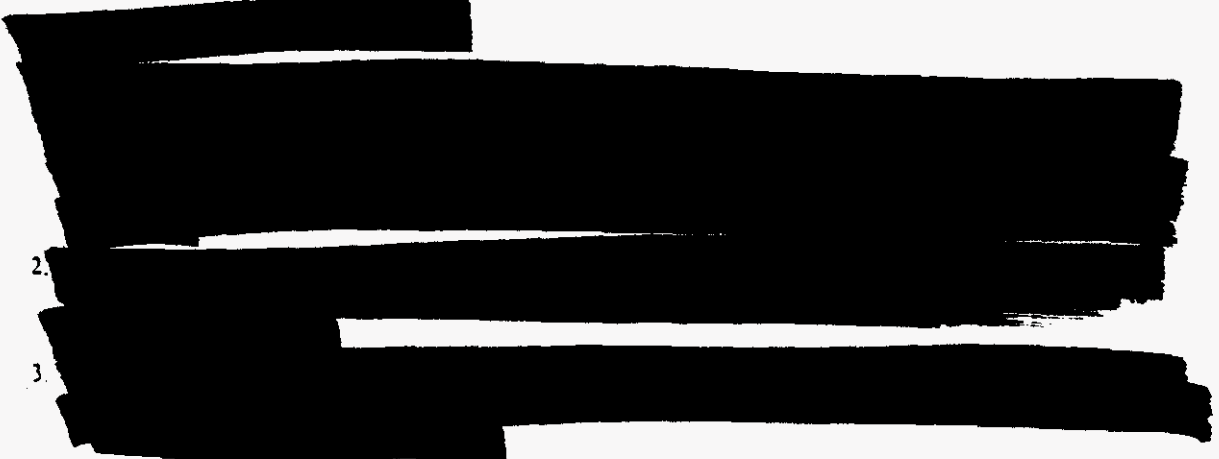
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13 **5. RECORDING / BILLING (ECB)**

14 **5.1 Local Switch Office Recording (ECB)**

15 For the case of LEC Resale, OS recording at the LEC End Office will not be impacted because calls are
16 expected to be routed to the AT&T 5ESS/OSPS. When the LEC End Office is requested to route the call
17 to the ASN, it will send the call via a dedicated trunk group. At this point, the LEC End Office will
18 generate an access record. There will be no AMA recording required for these calls at the LEC End
19 Office.

20 For the case of Loop Resale, OS recording at the AT&T Local End Office will not be impacted because
21 calls are expected to be routed to the AT&T 5ESS® OSPS. When the AT&T Local End Office routes the
22 call to the ASN, it will send the call via a dedicated trunk group. At this point the AT&T Local End
23 Office will generate an access record. There will be no AMA recording required for these calls at the
24 AT&T Local End Office.

25 **5.2 AT&T Switched Network Recording (ECB)**

26 **5.2.1 AMA Recording Using 5ESS® OSPS**



31 If the LEC provides the Operator Service and a call is completed, the EMI records will contain
32 information indicating Call Completion.

1 **5.2.1.1 CICADA Call Completion AMA Record**

2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]

6 **5.2.2 Need for Identification of AMA Record**

7 [REDACTED]
8 [REDACTED]

9 **5.2.3 Methods of Distinguishing the AMA Records**

10 For the Loop Resale case, the Local OS AMA records are created at some designated SESS® OSPS to
11 which the Local SESS® directs the calls. These AMA records look similar to regular SESS® OSPS AMA
12 records.

13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]

17 **5.3 LNP Recording Impacts (ECB)**

18 **5.3.1 Local Routing Number (LRN) Solution**

19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]

26 **5.3.2 Remote Call Forwarding Plus (RCF+) Solution**

27 Remote Call Forwarding Plus (RCF+) is similar to LNP in that it permits customers to relocate within the
28 same local call area but to another carrier.

29 No AMA recording impacts are expected. More details of RCF+ are contained in 'CCS Local Number
30 Portability Technical Analysis Brief / Technical Plan,' Issue 1, Draft 5, February 23, 1996.

1 **5.4 Recording Impact Summary (ECB)**

2 With the introduction of various local services (e.g., Local calling, Local Operator Services, Local DA,
3 etc.), there will be a significant increase in AMA records and / or EMI records. [REDACTED]
4 [REDACTED]
5 [REDACTED]

6 **5.5 Billing Impact**

7 **5.5.1 Billing Data Acquisition and Transport (BILLDATS) System (ECB)**

8 [REDACTED]
9 [REDACTED]
10 [REDACTED]

11 [REDACTED]
12 [REDACTED]
13 [REDACTED]

14 **5.5.2 Recorded Information Collection (RICS) System (ECB)**

15 [REDACTED]
16 [REDACTED]

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18 [REDACTED]
19 [REDACTED]

20 [REDACTED]
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22 **5.5.3 Message Rating (ECB)**

23 [REDACTED]
24 [REDACTED]
25 [REDACTED]
26 [REDACTED]

27 **5.5.4 Local Billing System Impacts- (ECB)**

28 [REDACTED]
29 [REDACTED]
30 [REDACTED]

31 ³² J. P. Dowens, B. M. Sullivan, "IntraLATA/Local Service Recording - RICS Technical Plan - Issue 1.2,
32 December 1, 1995" is hereby approved for use pursuant to Company Instructions.

1 6. FEATURE INTERACTIONS

2 6.1 5ESS® OSPS Interaction (LCM)

3 Local OS calls will be routed to the 5ESS® OSPS. Since carrier of "0288" is used for 00- and 0-, the
4 separation of 00- and 0- would require routing the two types of traffic over separate trunk groups. The 00-
5 traffic can be subject to VRCP treatment and the 0- traffic can then be routed to a live operator team.

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8 [REDACTED]
9 [REDACTED]
10 [REDACTED]

11 [REDACTED]
12 [REDACTED]
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26 [REDACTED]
27 [REDACTED]
28 [REDACTED]
29 [REDACTED]
30 [REDACTED]
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34 [REDACTED]

35 Input from P. Thomson:
36 An operator will allow a blocked call to proceed if it is an emergency call.

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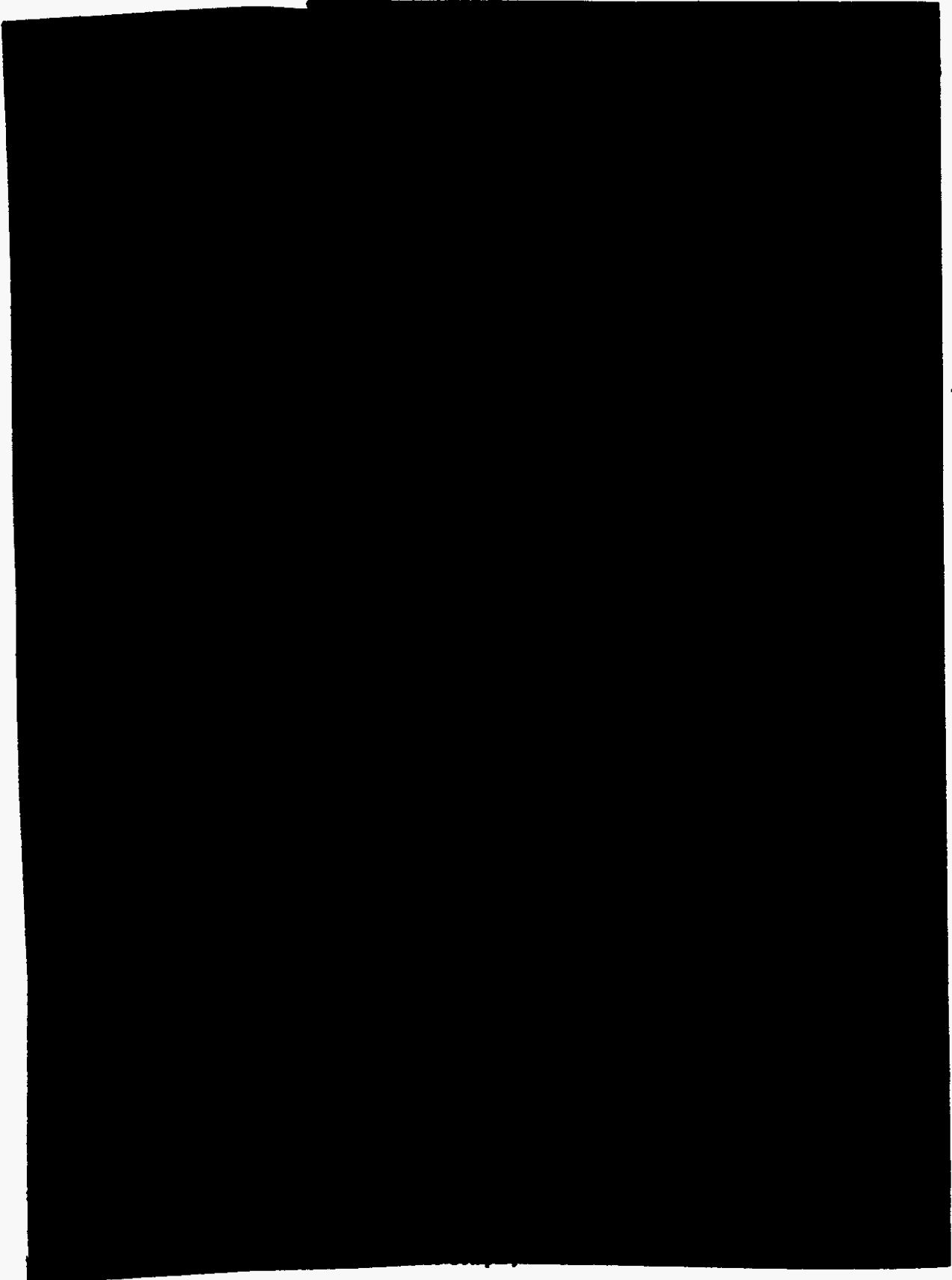
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6.4 Multi-Linqual Operator Services (LCM)⁵⁴

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6.5 Local Number Portability and SE OSPS T&A (LCM, TAD)

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Local Number Portability (LNP) is the capability for customers to change their Local Service Provider (LSP) while retaining their current telephone number. In the LNP environment, the NPA-NXXs which the LEC owns and leases numbers to other LSPs (e.g. AT&T) in the LEC Service Resale will be opened to portability, and the numbers leased from the LEC will be considered ported. The local OS service, along

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⁵⁵ Echols, T., "Comments Regarding OSPS Support of IntraLATA Toll Presubscription Functionality," June 26, 1995.
AT&T Translation Guide (TGS), "IntraLATA PIC Capability", Division 2, Section 4A149, May 1995.

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⁵⁶ Input provided by C. Most, S. Scharm, and Operator Call Servicing team.

1 with other CCS / BCS features and services, is being assessed⁵⁷ for LNP impacts to ensure it is compatible
2 with the various proposed LNP implementations.

3 There are several interim and permanent solutions being studied.⁵⁸ Certain interim solutions will require
4 extensive development in the ASN and appear to be 1 to 2 years away. Unfortunately, AT&T must meet
5 the customers needs in an earlier timeframe. Of the available alternatives, LNP with Remote Call
6 Forwarding (RCF+) seems the most likely candidate. It is ready now, it can be applied on a line by line
7 basis and does not require direct trunking between end offices from which customers numbers have been
8 ported and the office to which they have been ported.⁵⁹ Unfortunately, RCF+ has some shortcomings
9 when applied to operator services. When an AT&T operator attempts to verify a ported number they will
10 always attempt to verify the ported number in the end office from which the customer left. Let's refer to
11 this as a ported number A. The RCF+ can direct a normal call to ported number B. In reality, the AT&T
12 operator or inward operator can only test ported number A. It will always look idle. This is not a new
13 situation, RCF has already interfered with accuracy of the response / report of the BLV/EI feature long
14 ago. In addition, calls arriving at an AT&T operator's position from a ported customer will always show
15 their ANI to be ported number B. This can lead to confusion and eventually customer dissatisfaction.
16 Of course, the billing number populated in the AMA call record will be ported number B.

17 LNP is applicable to any call to an AT&T local service customer. LNP is needed to correctly route their
18 calls. In addition, LNP has implications on calls from our customers, in that their caller ID/ANI must be
19 the correct number. LNP applies only to Loop Resale and LEC Resale with AT&T-handled operator
20 services. LNP has feature interactions with the following SESS® OSPS T&A features:

- 21 1. Telephone Line Number (TLN) based Calling Cards.⁶⁰
- 22 2. TLN card billing if ported cards are honored.
- 23 3. Non Card billing of ported numbers.
- 24 4. Originating and terminating access charging.
- 25 5. Inward and BLV calls.

26 To date, there is no new LNP issues introduced by the local OS architecture. The areas of potential
27 impact, including call routing and recording, are shared by other AT&T services. The solutions currently
28 being addressed for these areas of service impacts would satisfy the needs of local OS service. Additional
29 information will be added to this section in the future as needed.

30 6.5.1 Call Routing Impacts

31 ⁵⁷ CCS LNP Technical Plan (M. Bilder, coordinator) to address CCS LNP impacts on local features and
32 services.

33 ⁵⁸ Bhagat, P. K., et al., "Local Number Portability", Technical Plan, Core Feature Request #4216. Draft
34 copy, June 5, 1995.

35 Bhagat, P. K., et al., "Local Number Portability with Carrier Portability Codes", Feasibility Report, NSD
36 Tracking Number 4949, Draft Copy, June 15, 1995.

37 Choy, M., et al, "Local Number Portability", Technical Plan.

38 ⁵⁹ Correspondence with E. G. Burns, May 19, 1995.

39 ⁶⁰ TLN Calling Card is not currently being considered as part of the local service offering. This status
40 may change as a result of future business needs.

1 The local OS call completion is handled at the Regional SESS® OSPS. For calls involving an ANI which
2 is ported, relevant information to complete the call (e.g. routing information) will be retrieved at the
3 SESS®. This method will satisfy local OS as well as other services that have call completion occurring at
4 the SESS®

5 **6.5.2 Recording Impacts**

6 The LNP guidelines for recording are being discussed by the industry. There are various assumptions
7 which are well accepted, but are subject to change. The method to be selected will apply to local DA as
8 well as other services. Refer to the earlier "Recording" section for the current assessment of LNP impacts
9 on local DA recording.

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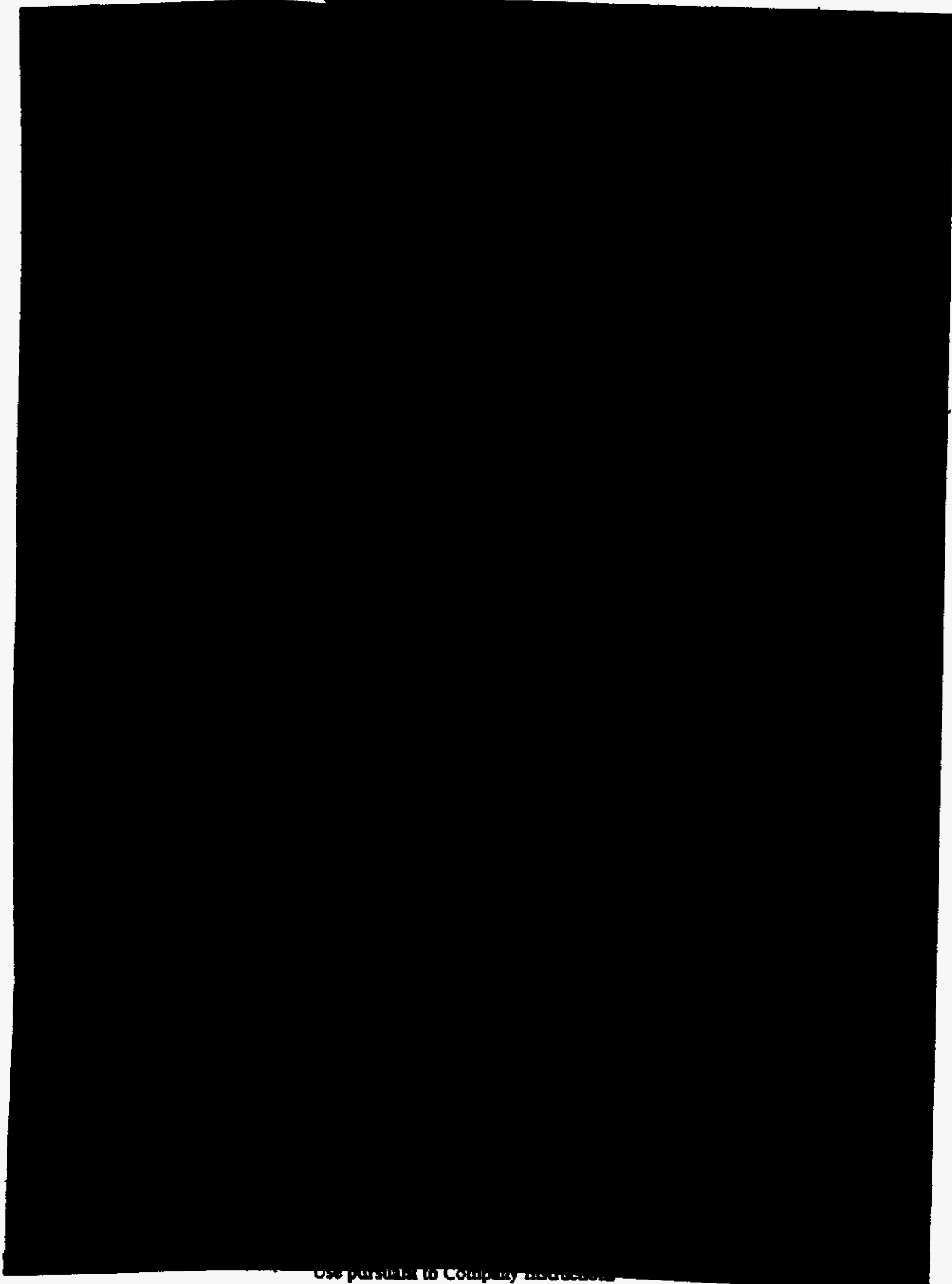
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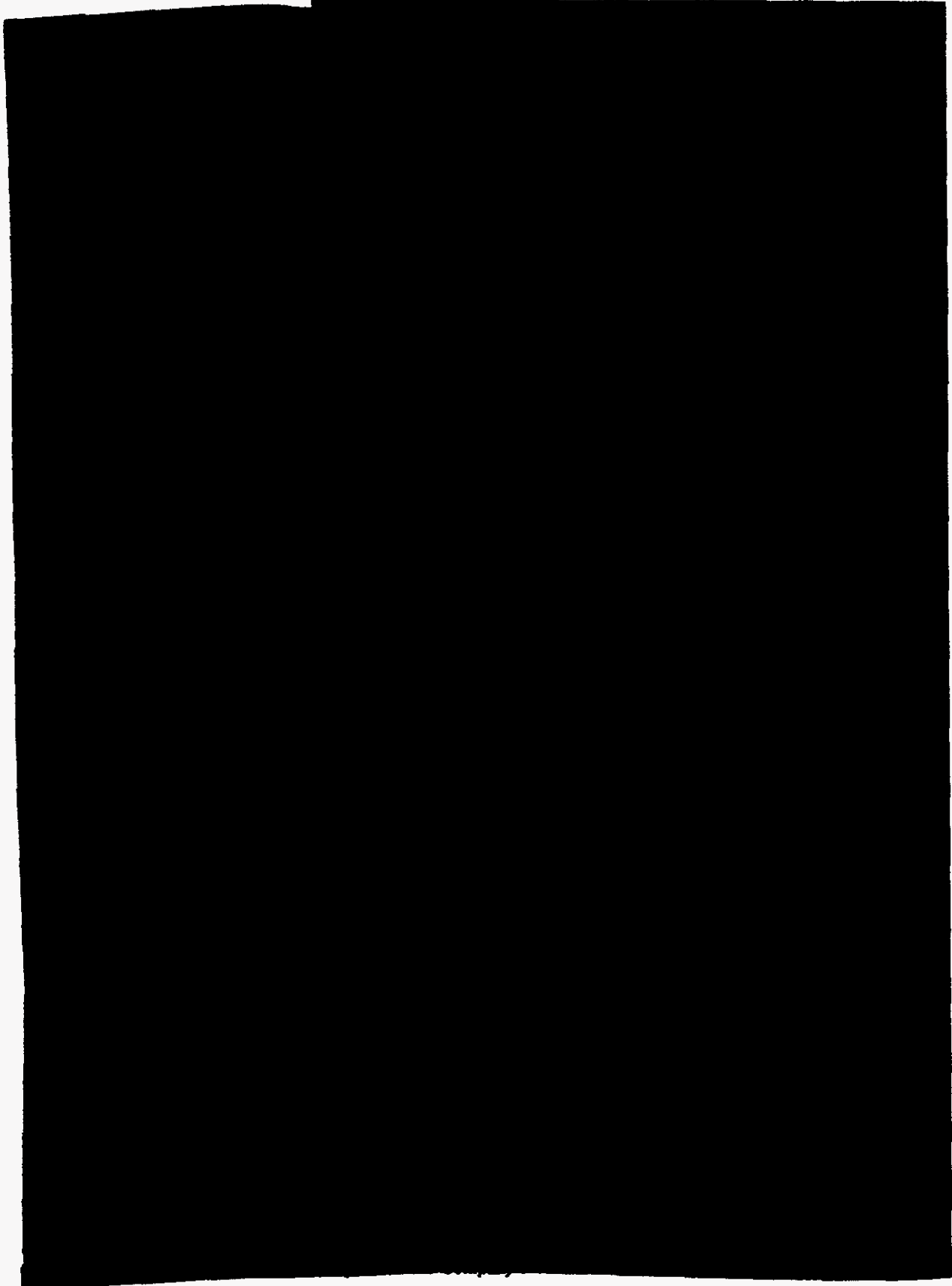
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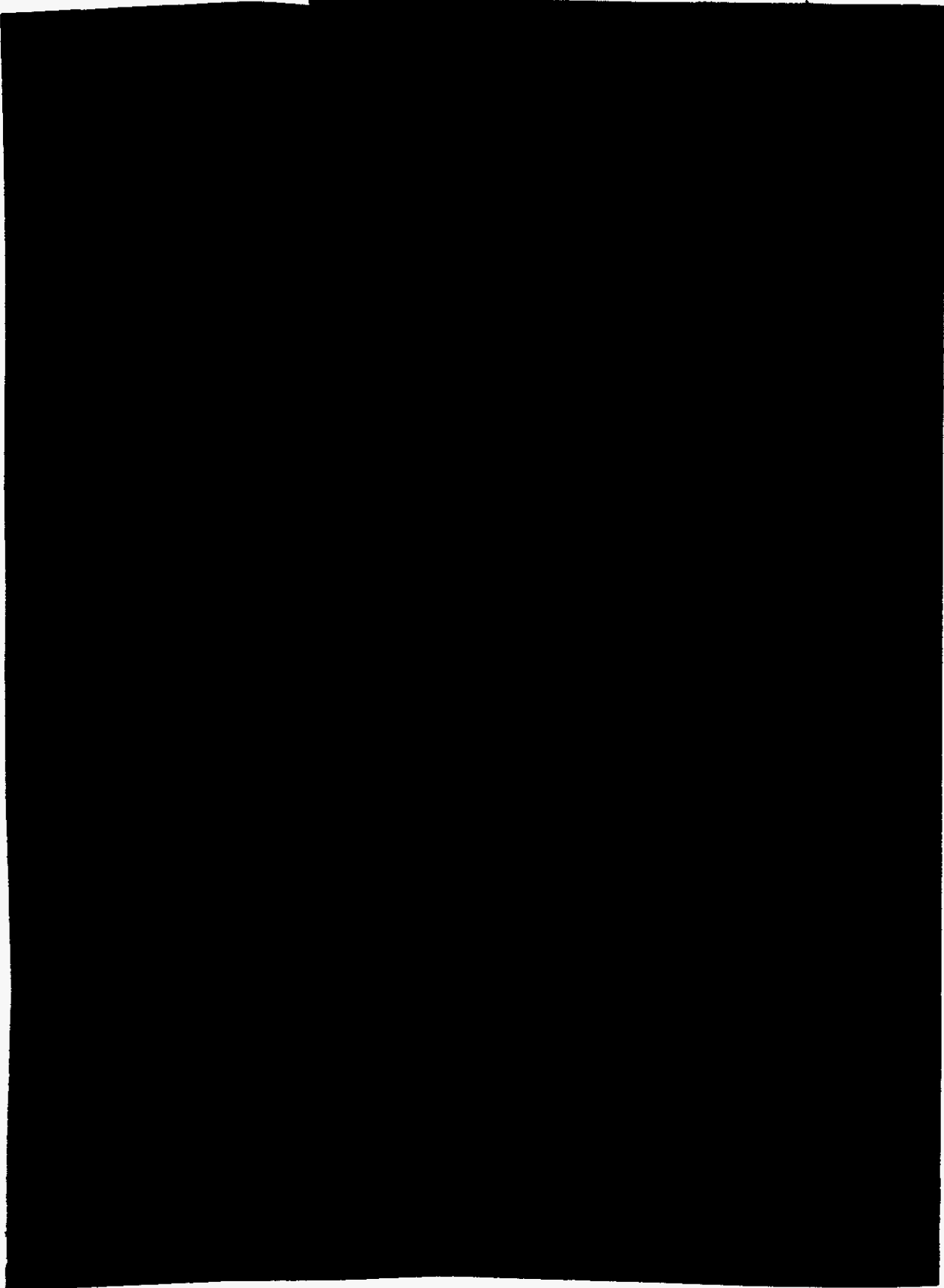
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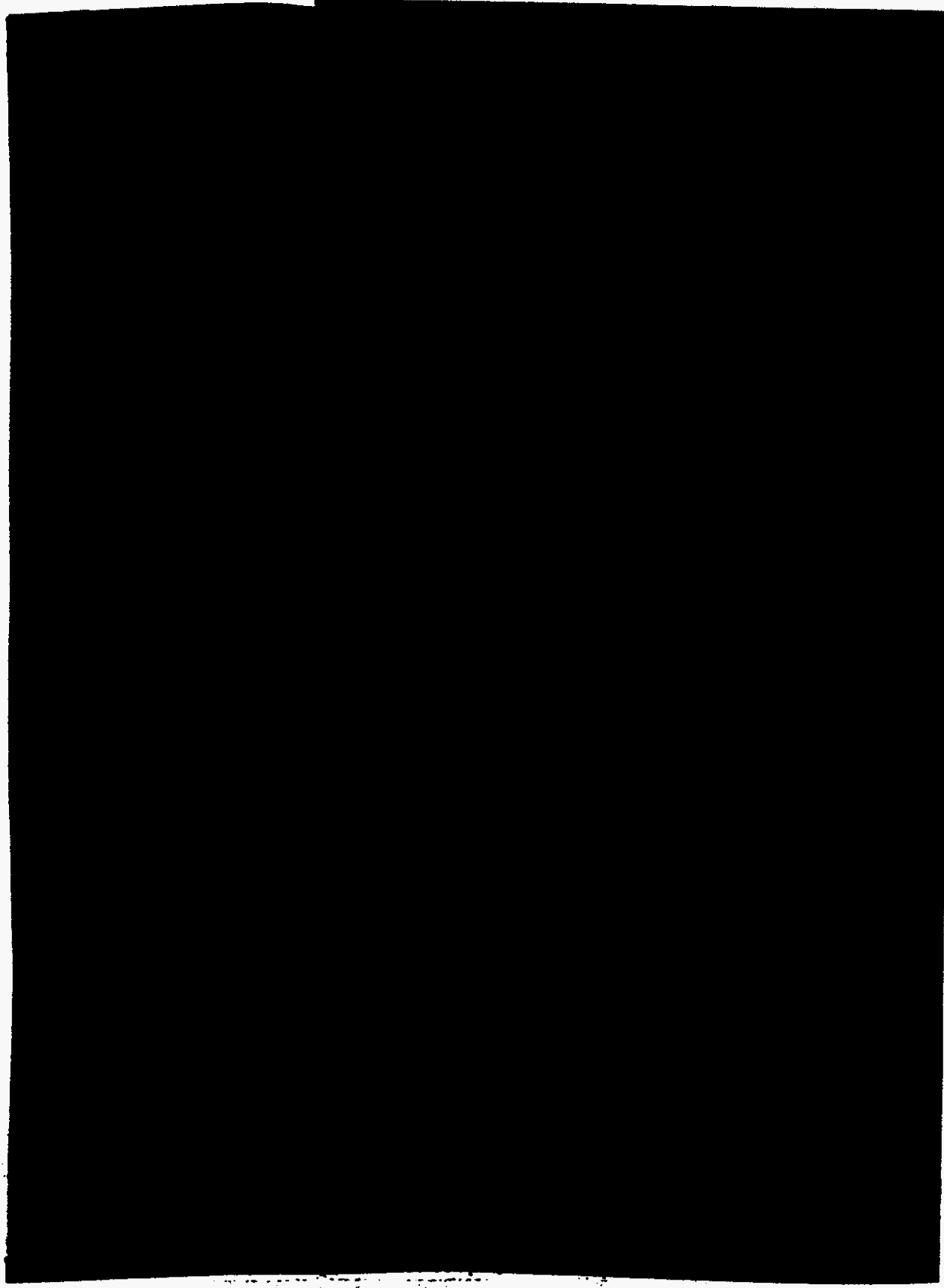
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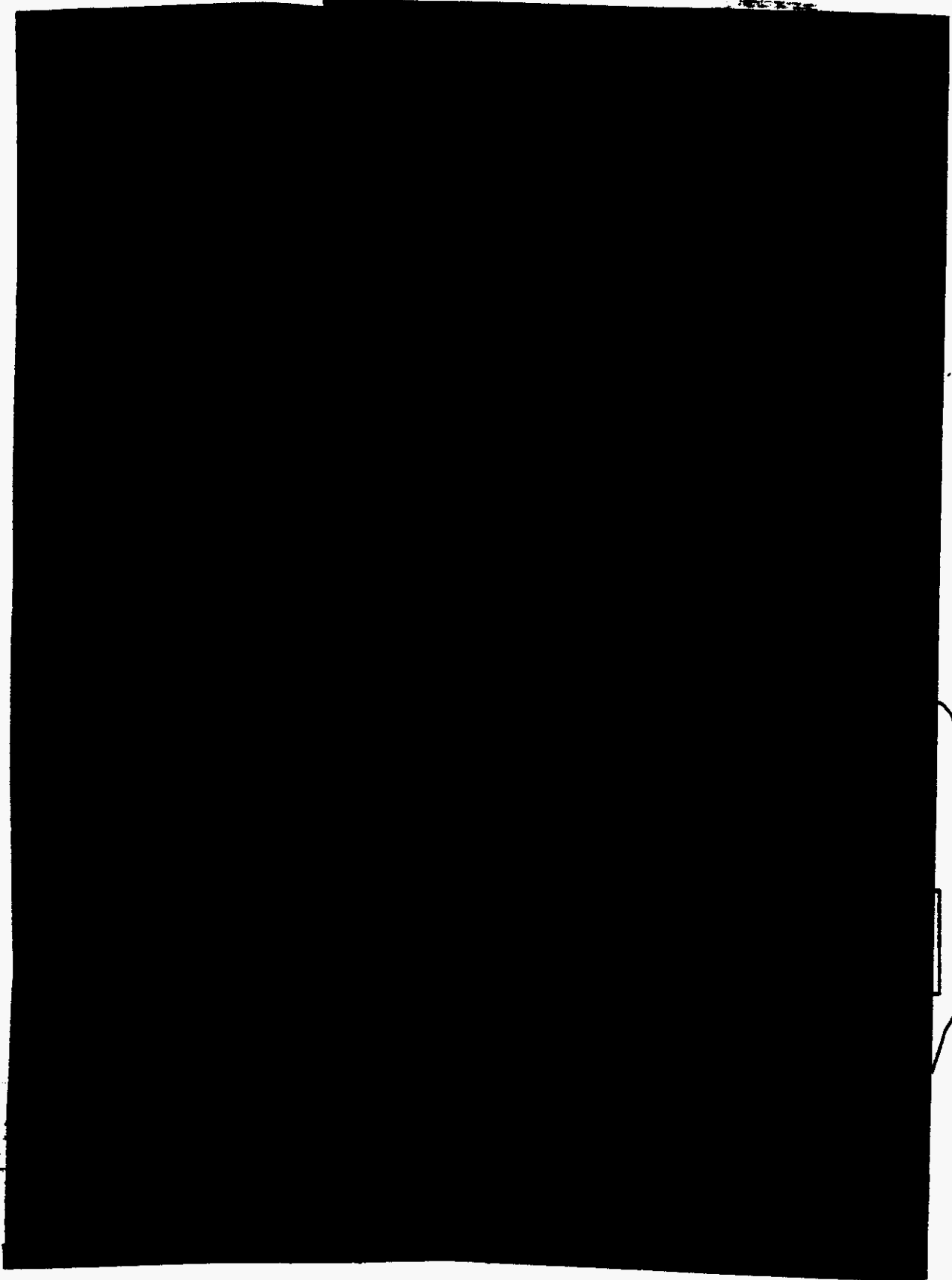
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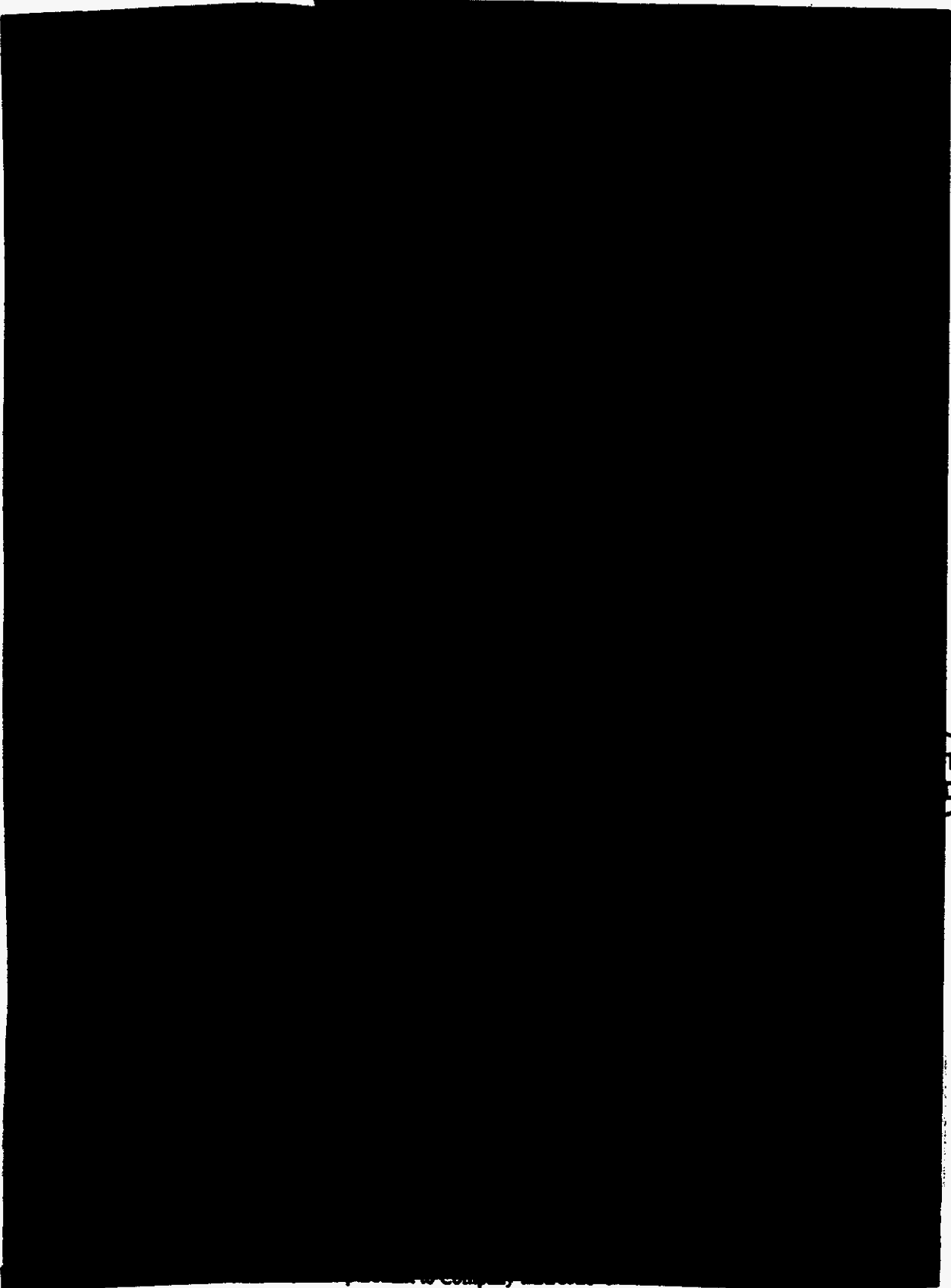
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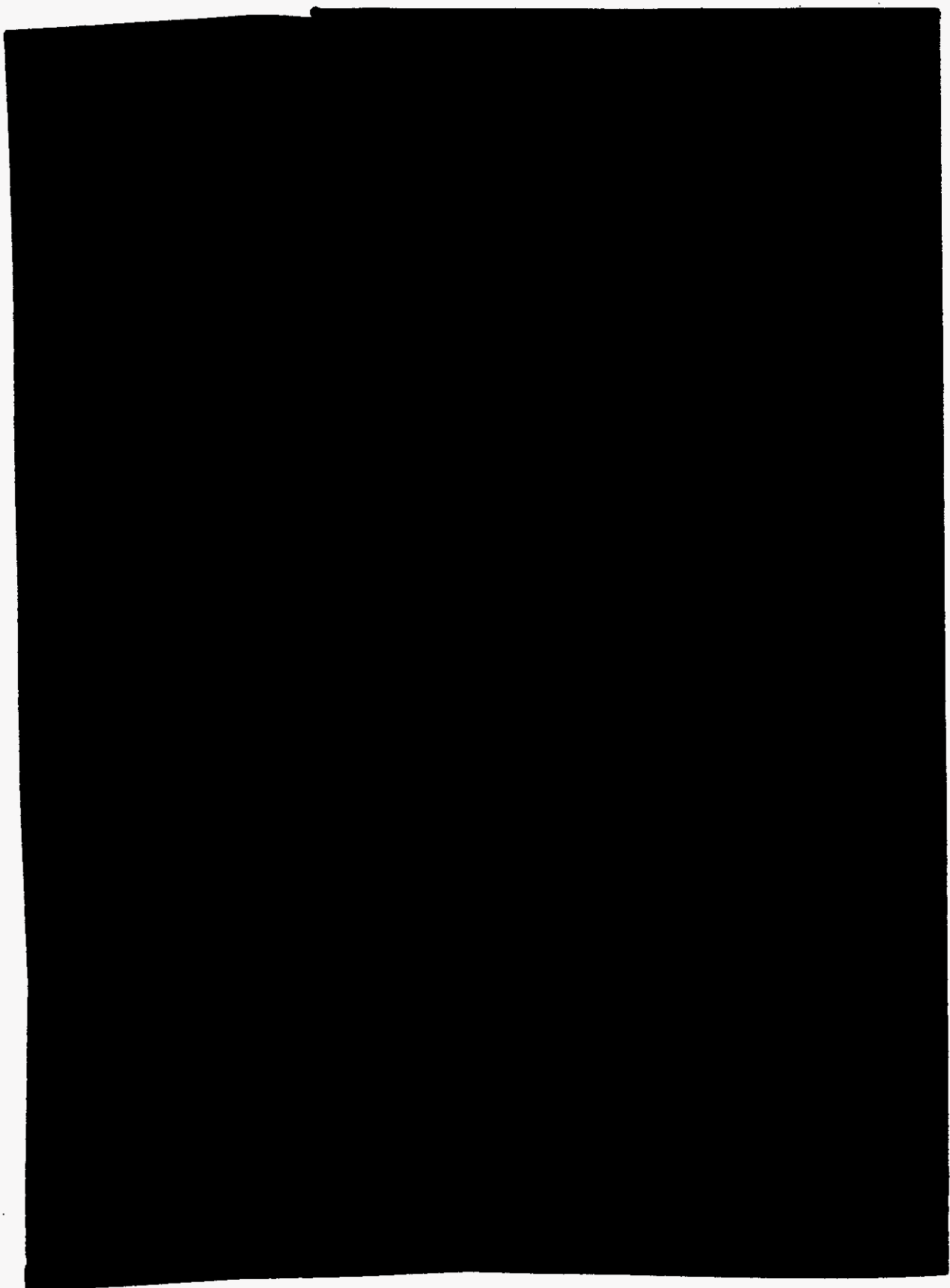
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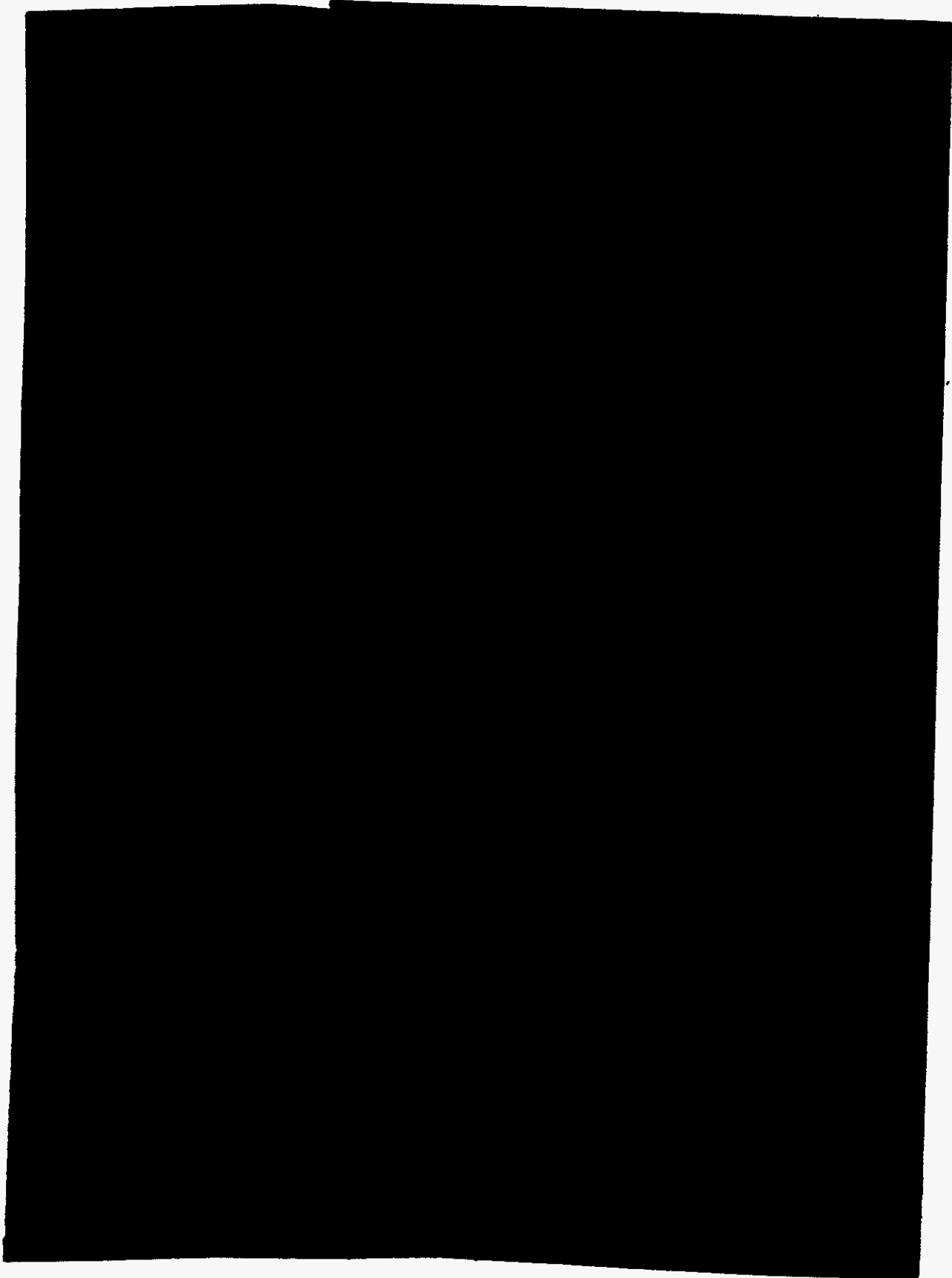
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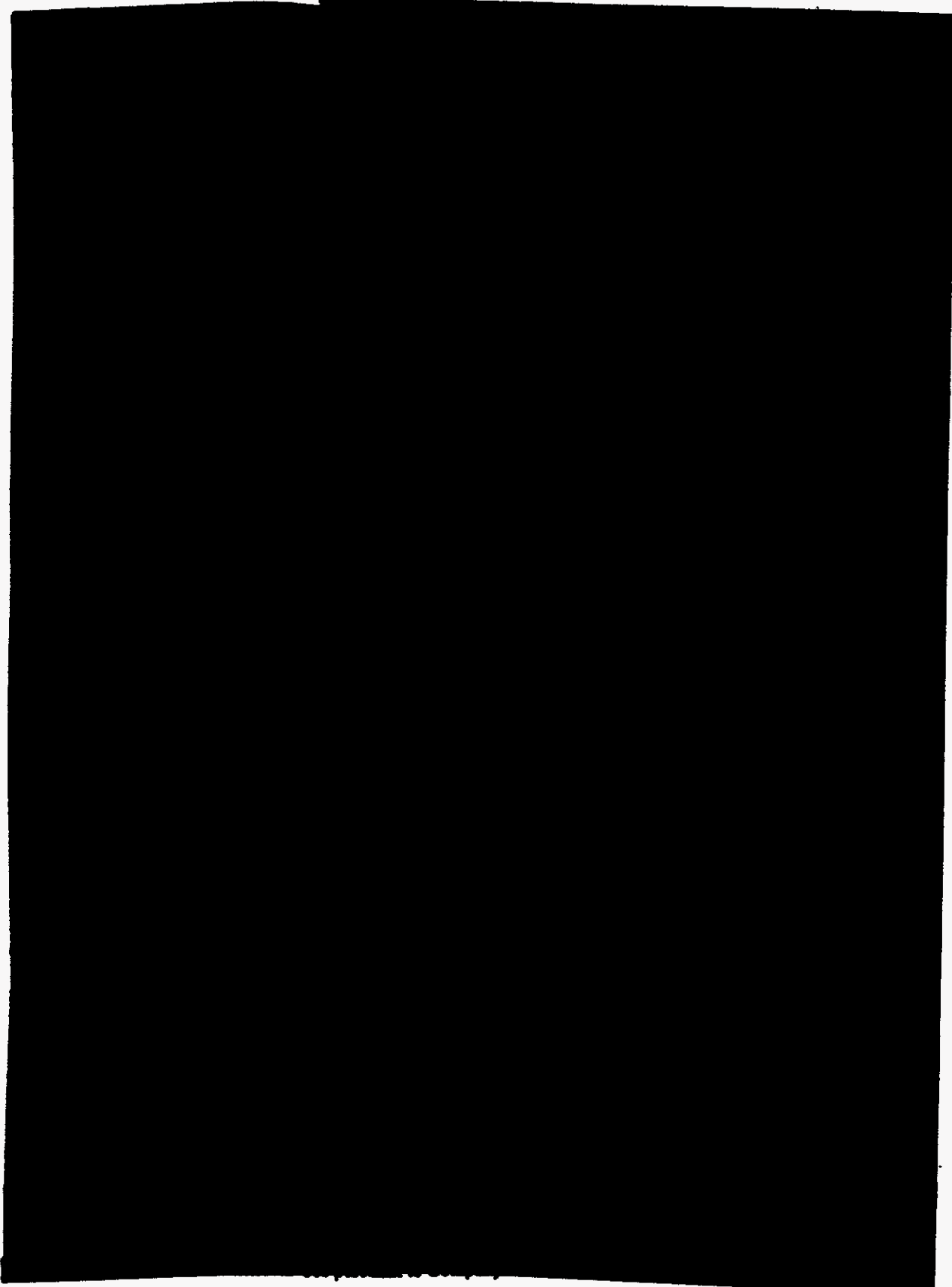
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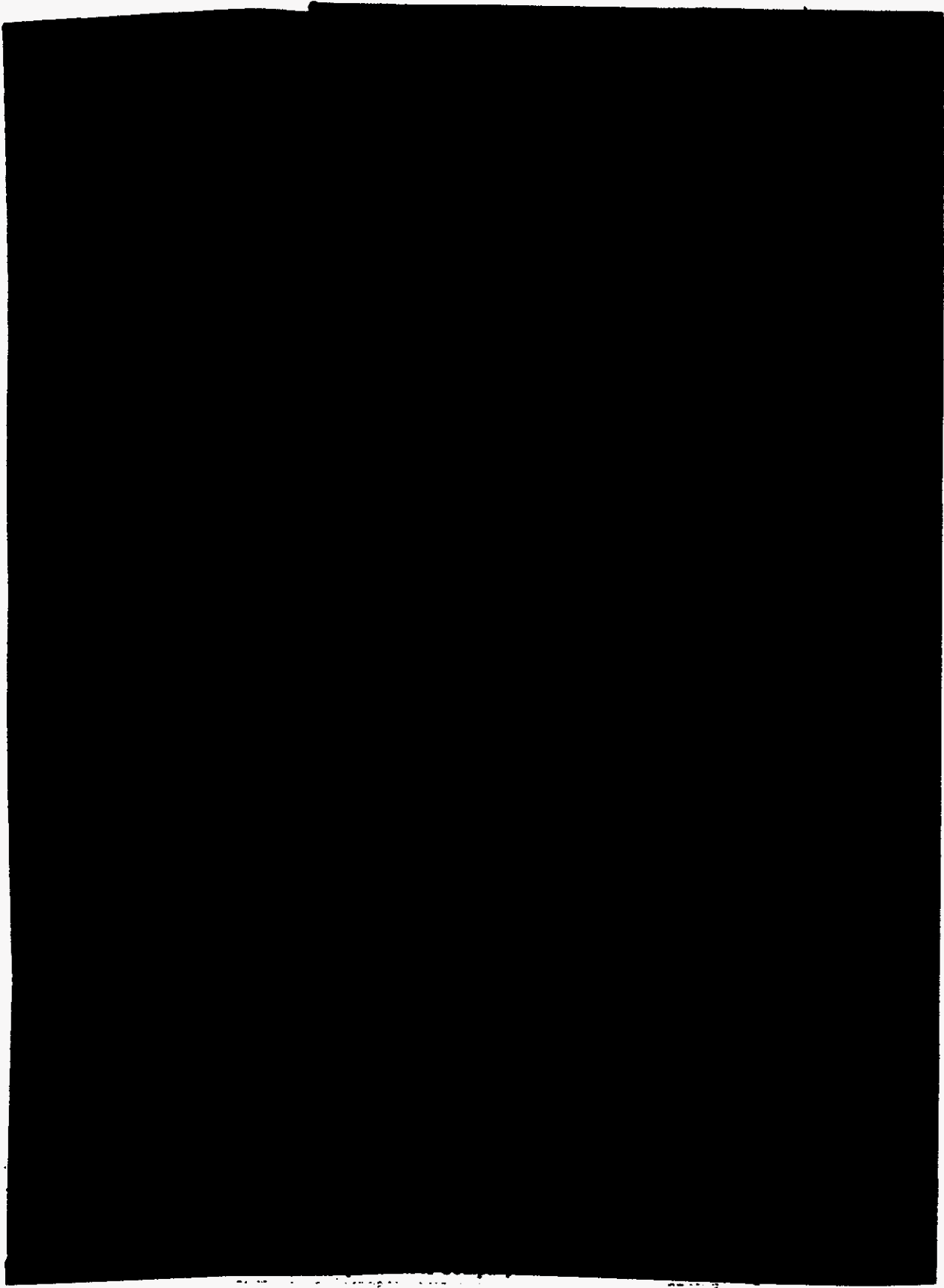
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1 separate trunk groups should be used, or some SESS® OSPS development may be needed. The need
2 and the associated effort is being reassessed.

3 It should be noted, however, that without development, the routing is still OK by (a) routing 0- and
4 00- traffic on separate trunk groups if it is required to separate the traffic at the OSPS, or (b) via the
5 same trunk group if traffic separation is not required.

6 • The routing solution described in this document should be viewed as an interim solution in the LEC
7 Resale environment since
8 a) it would require LEC to agree to this routing.
9 b) it would require LEC to provision each AT&T customer.
10 c) there are some other issues for negotiation with LEC.
11 (e.g. resolve access AMA record handling).

12 • In the LEC Resale environment, there is a need for an industry-wide push for LEC commitment to
13 provide competing local carriers ability to route these calls.

14 • Other vendor switches would most likely (although we have not verified on their switches) be able to
15 handle the same routing since ONLY BASIC, EXISTING switch capabilities are used. These
16 capabilities should be available in all switches today. It is anticipated that there is some degree of
17 variation in the implementation steps for a vendor switch, similar to the differences between the
18 SESS® and IA ESS™ solution as described in the preceding section on "Access Architecture".

19 • When OS calls are routed by the LEC to the AT&T platform, there must not be any signaling delay
20 that makes call setup time longer.

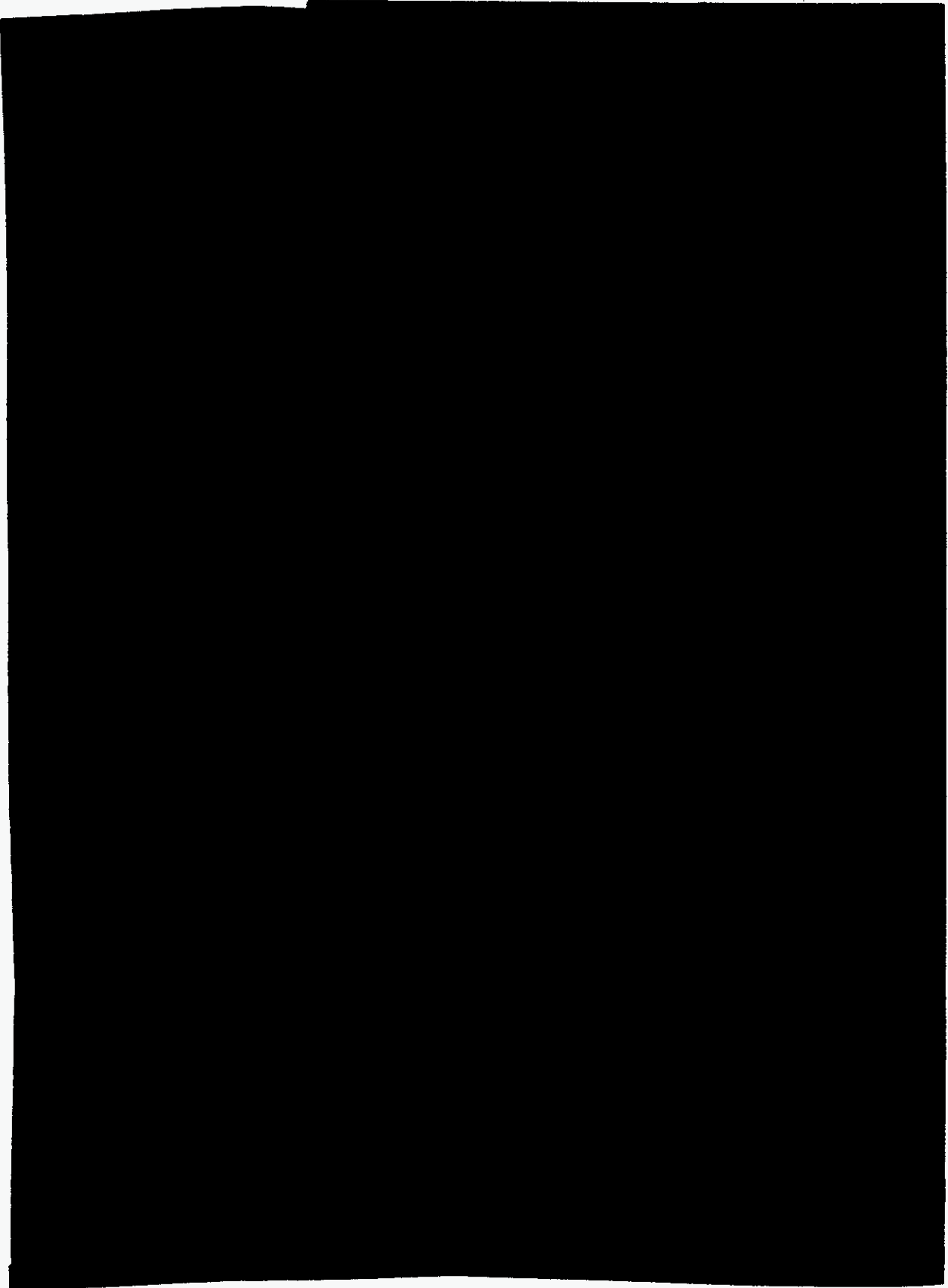
21 • Audit / measurement capabilities must be available.

22 Bear in mind that having the LEC to agree to routing our local "0+" and "0-" calls is not going to be easy
23 since (a) there is work (provisioning and maintenance of customer lines, some billing process) involved,
24 and (b) conflict of business interest. However, the technical solution does exist and that is a favorable
25 bargaining point.

26 12. FUTURE WORK (LCM)

27 There is an on-going effort to evaluate other means of routing local traffic from the LEC End Office to the
28 AT&T SESS® OSPS in the LEC Service Resale environment.

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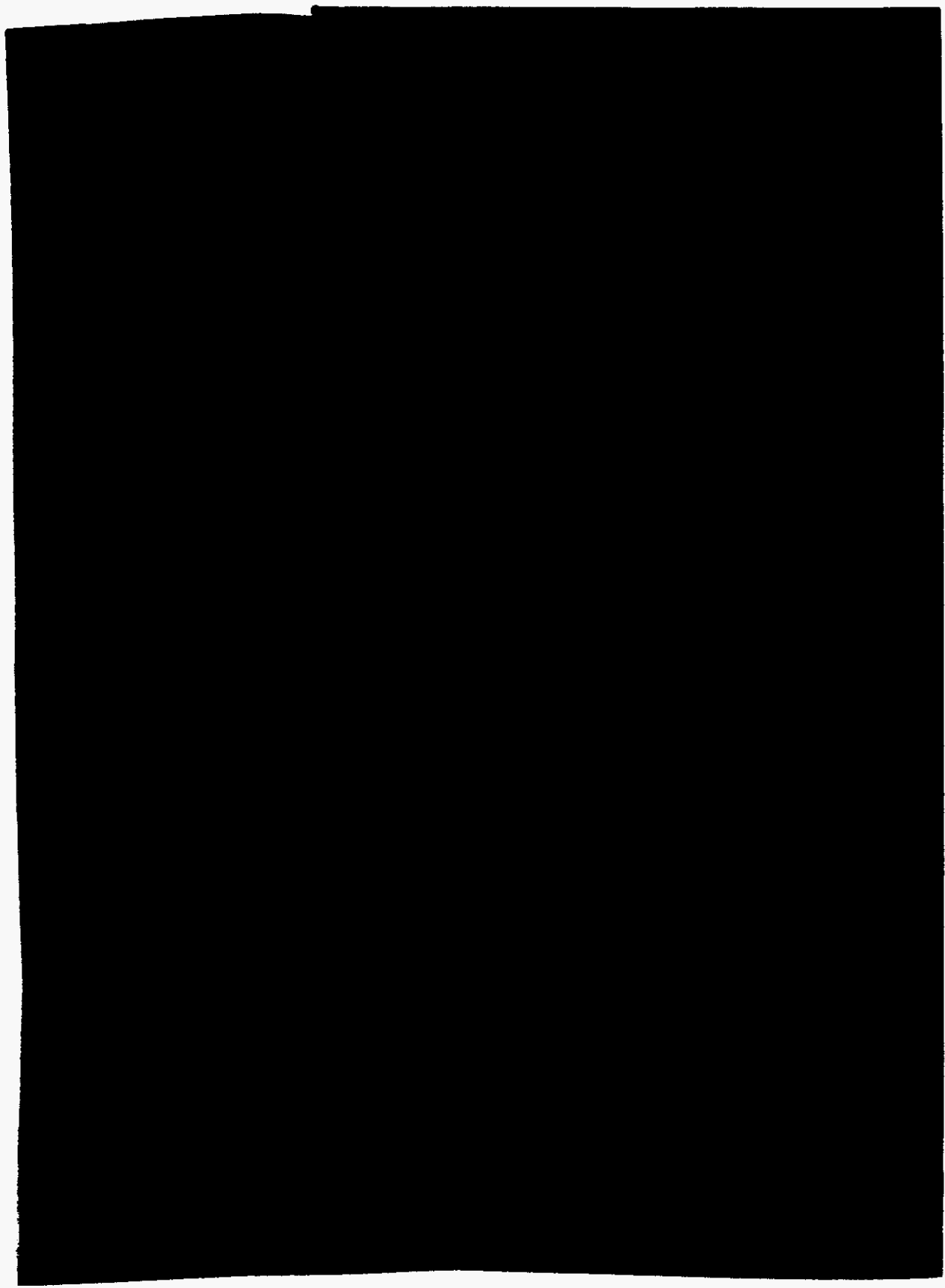
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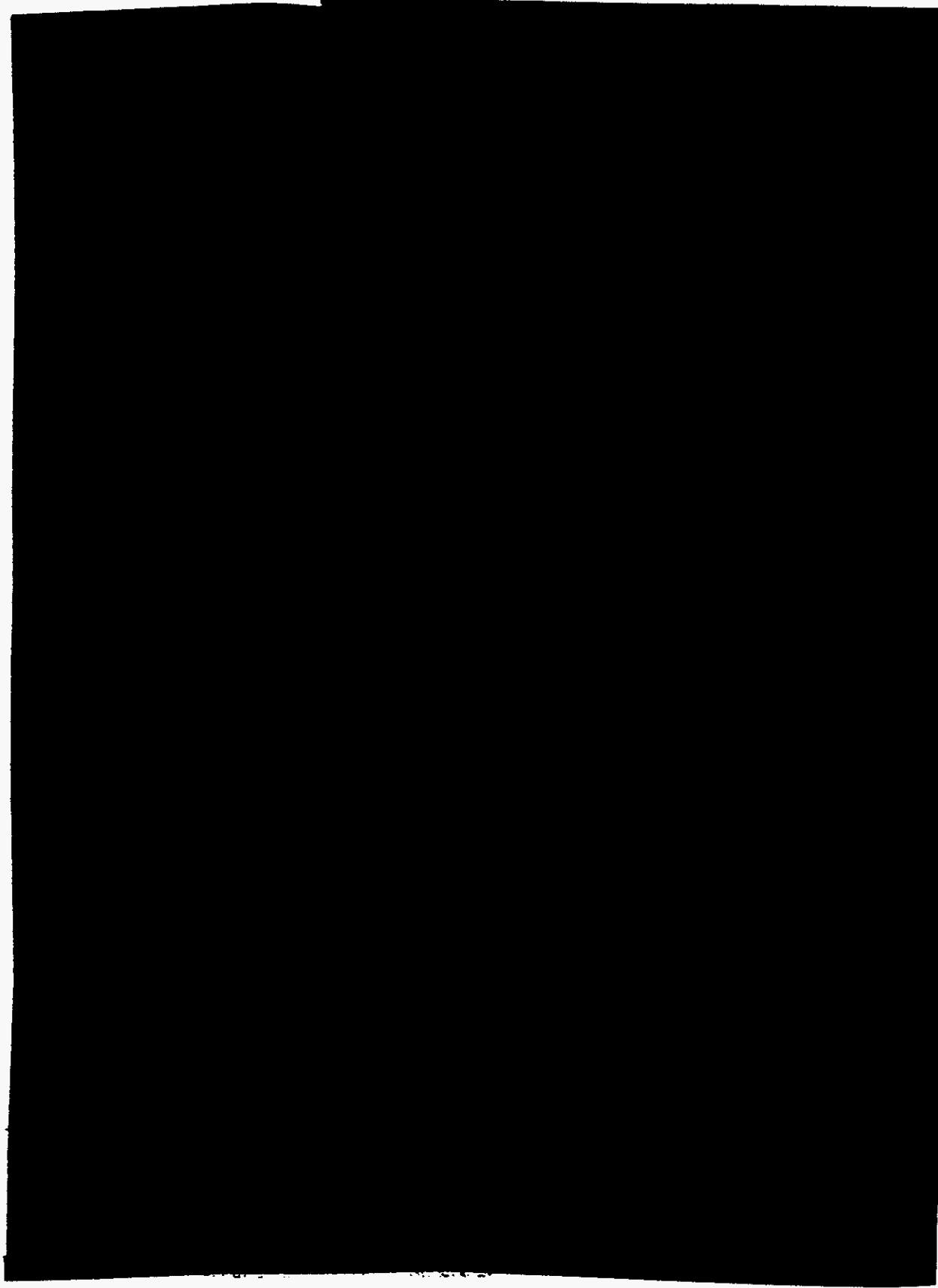
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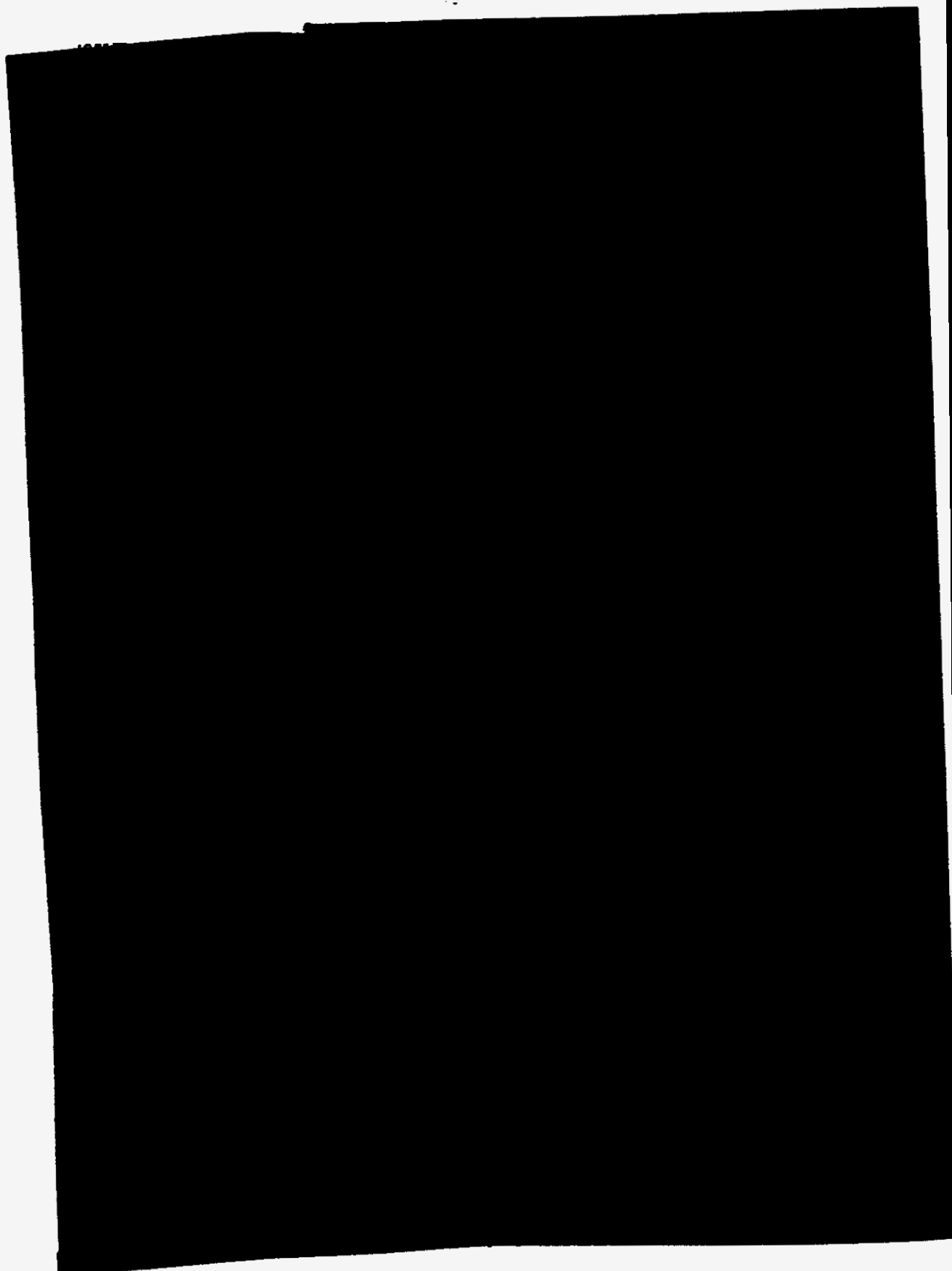
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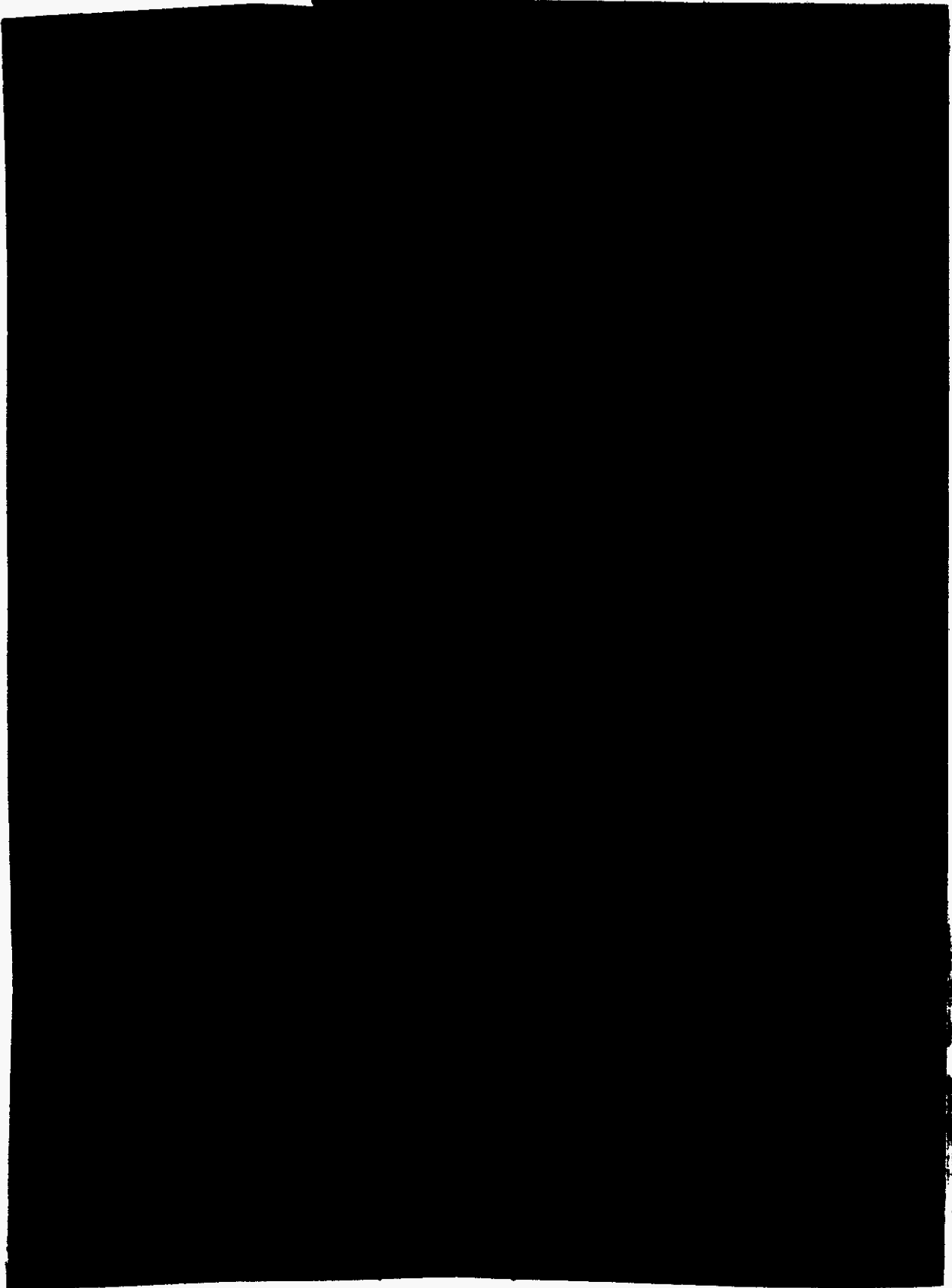
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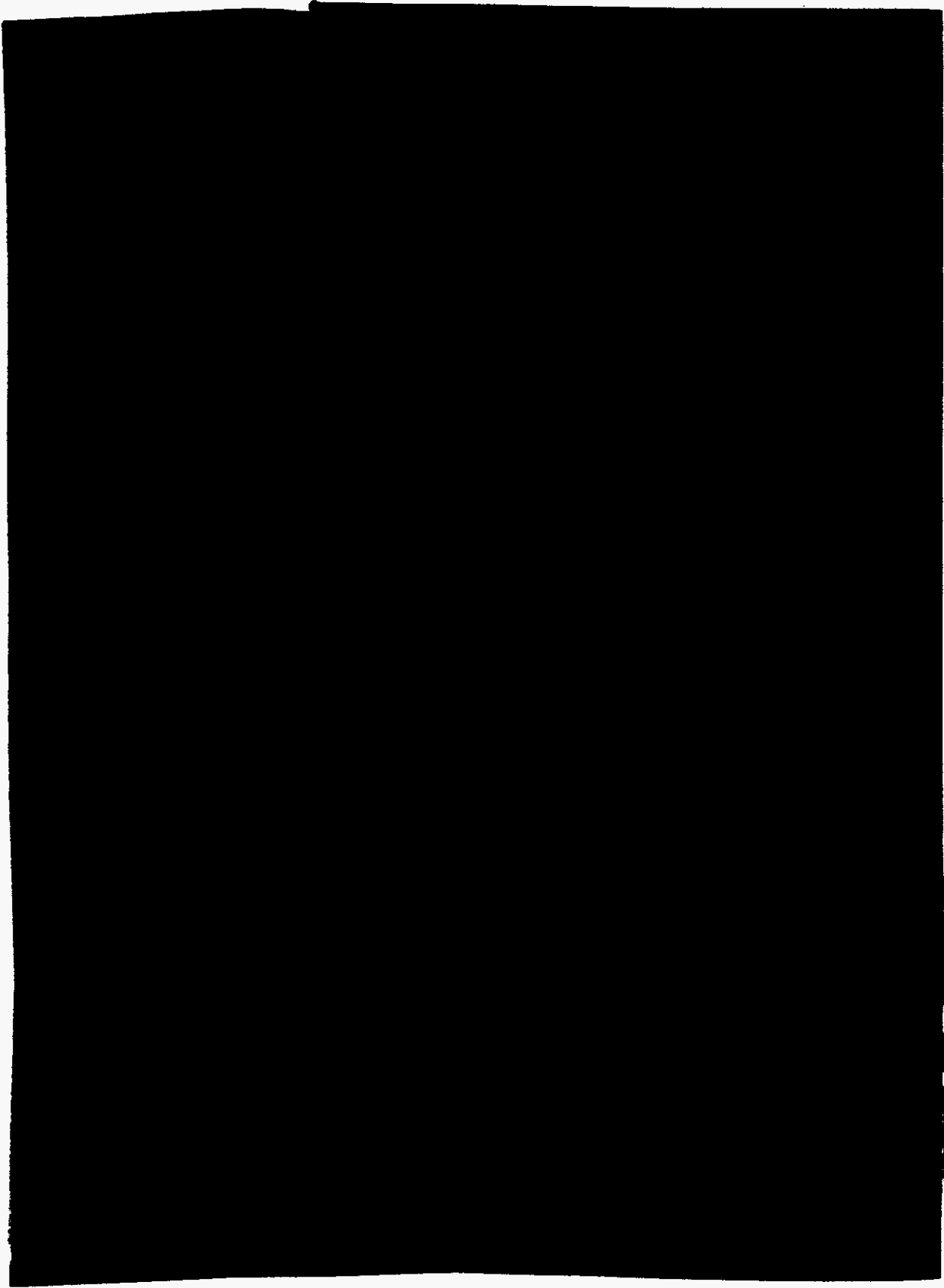
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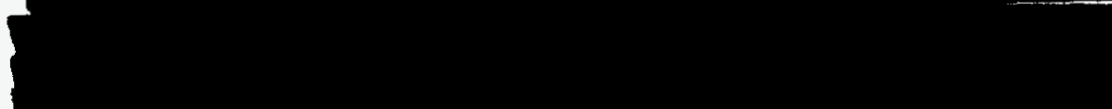
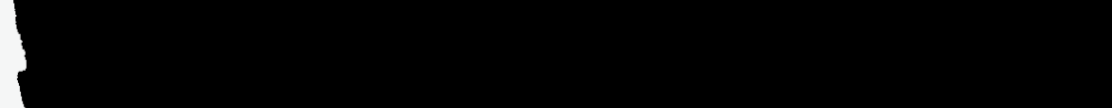

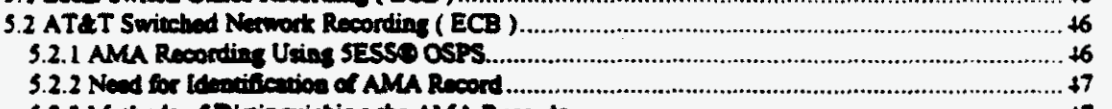
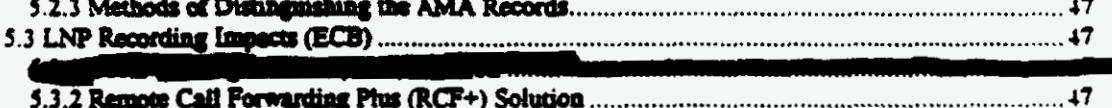
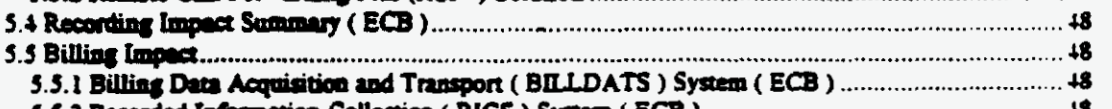
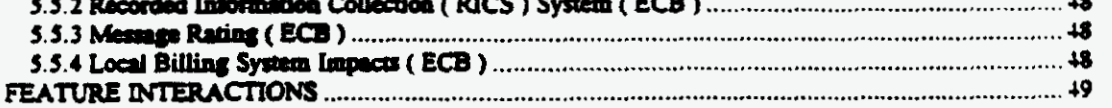

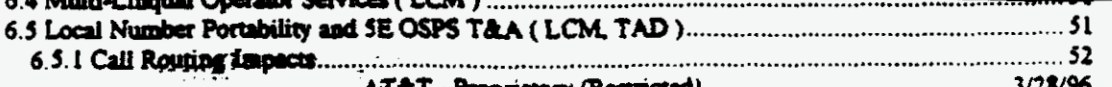

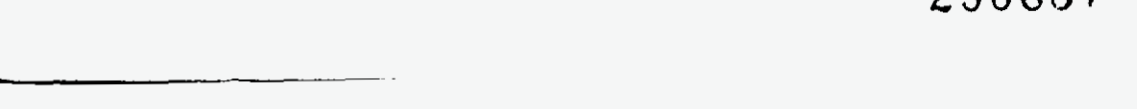


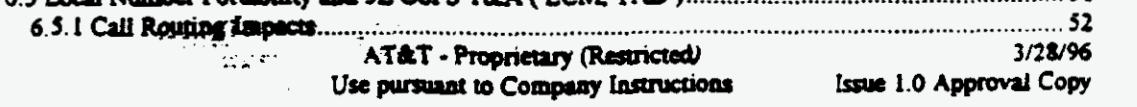
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1 15. GLOSSARY

| | | |
|----|----------|--|
| 2 | ACCS | Automatic Calling Card Service |
| 3 | ACS | Accessible Communications Service |
| 4 | ACQS | Automatic Charge Quotation System |
| 5 | ACTS | Automatic Coin Toll Service |
| 6 | AILS | Automatic Inward Line Screening |
| 7 | ALEC | Alternate Local Exchange Carrier |
| 8 | AMA | Automatic Message Recording |
| 9 | ANI | Automatic Number Identification |
| 10 | ANIF | Automatic Number Identification Fail |
| 11 | AP | Automated Position |
| 12 | ASN | AT&T Switched Network |
| 13 | AT | Access Tandem |
| 14 | BILLDATS | Billing Data Acquisition and Transport System |
| 15 | BLV | Busy Line Verification |
| 16 | CAP | Competitive Access Provider |
| 17 | CAT | Consolidated Access Trunking |
| 18 | CICADA | Completion of InterLATA Calls Accessing Directory Assistance |
| 19 | CLD | Consumer Long Distance |
| 20 | COC | Carrier of Choice |
| 21 | CPDL | Call Processing Data Link |
| 22 | CSC | Call Servicing Center |
| 23 | CSE | Carrier Selection Enforcement |
| 24 | CSIDS | Call Servicing Information Delivery System |
| 25 | DA | Directory Assistance |
| 26 | DACC | Directory Assistance Call Completion |
| 27 | DMOQ | Direct Measure of Quality |
| 28 | DTMF | Dual Tone Multifrequency |
| 29 | EI | Emergency Interrupt |
| 30 | EIS | Extended Inband Signaling |
| 31 | EMI | Electronic Message Interchange |
| 32 | EO | End Office |
| 33 | FGC | Feature Group C |
| 34 | FGD | Feature Group D |
| 35 | IB | Inband |
| 36 | ICO | Independent Companies |
| 37 | IIB | Indeterminate Information Bureau |
| 38 | IPIC | IntraLATA PIC |
| 39 | IXC | interexchange carrier |
| 40 | LBS | Local Billing System |
| 41 | LD | Long Distance |

| | | |
|----|-------------------------|--|
| 1 | LEC | Local Exchange Company |
| 2 | LERG | Local Exchange Routing Guide |
| 3 | LIDB | Line Information Database |
| 4 | LNP | Local Number Portability |
| 5 | LRN | Local Routing Number |
| 6 | LS | Listing Service |
| 7 | LSDB | Listing Service Database |
| 8 | LSO | Local Switch Office |
| 9 | LSP | Local Service Provider |
| 10 | MECH | More Efficient Call Handling |
| 11 | MDF | Main Distributing Frame |
| 12 | MFJ | Modification of Final Judgment |
| 13 | MLOS | Multi-Lingual Operator Service |
| 14 | MOS | Modified Operator Service |
| 15 | MPS | Message Processing System |
| 16 | MW | Multi Wink |
| 17 | NAI | Network Access Interrupt |
| 18 | NPA | Numbering Plan Area |
| 19 | OAS | Originating AT&T Switch |
| 20 | OLI | Originating Line Indication |
| 21 | OLS | Originating Line Screening |
| 22 | ONI | Originating Number Identification |
| 23 | OS | Operator Service |
| 24 | OSPS | Operator Service Position System |
| 25 | OWS | Operator Work Station |
| 26 | POP | Point of Presence |
| 27 | PSM | Position Switching Module |
| 28 | PTC | Presubscribed Toll Carrier |
| 29 | RCF+ | Remote Call Forwarding Plus |
| 30 | RICS | Recorded Information Collection System |
| 31 | RISLU | Remote Integrated Services Line Unit |
| 32 | RTNR | Real Time Network Routing |
| 33 | RTRS | Real Time Rating System |
| 34 | RTU | Right To Use |
| 35 | SA | Special Applications |
| 36 | SDN | Software Defined Network |
| 37 | SM | Switching Module |
| 38 | SNOW-R | Service Now - Routing |
| 39 | SNOW-T | Service Now - Trunking |
| 40 | T&A | Toll and Assistance |
| 41 | TCS | Terminating Code Screening |
| 42 | T&CS | Time and Charges Service |
| 43 | VDT | Visual Display Terminal |
| 44 | VRCP | Voice Recognition Call Processing |
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Southern Region

Jay M. Bradbury
Manager

Room 12W47
Promenade II
1200 Peachtree St., NE
Atlanta, GA 30309
404-810-8005

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April 2, 1996

Suzie Lavett
BellSouth
Room ESG 3535 Colonnade Parkway
Birmingham, Alabama 35243

HAND DELIVERED

Dear Suzie:

This letter confirms that the following information which was shared with you, and identified at the time of disclosure, during our conference call of Friday, March 22, 1996, is proprietary and confidential.

AT&T estimates that by year end 1996, it will be sending [redacted] orders per business day to BellSouth for resale services and that this volume will grow to [redacted] orders per business day by mid year 1997. This is a forecast of future events, and as such is subject to variation dependent upon many factors, including the wholesale price of the services. It is our feeling that these estimates could vary by as much as plus or minus 20%.

It is our belief that order volumes of this magnitude can only be handled via electronic interfaces. To meet our customer service requirements, we would like to begin joint testing of these electronic interfaces on or about July 1, 1996. We will need your commitment to and descriptions of your proposed electronic interfaces by April 15, 1996.

As you agreed prior to the sharing of this information, it is for use by BellSouth only for the purposes of negotiating an interconnection agreement with AT&T under the Telecommunications Act of 1996, and only by BellSouth's representatives who have a "need to know" regarding our negotiations and the implementation of agreements reached in those negotiations.

Yours truly,


200734

ADMINISTRATIVE

1 April 10, 1996

2 MEMORANDUM

3 TO: Suzie Lavett

4 FROM: Jay Bradbury 

5 SUBJECT: TSR Implementation Timeline

6 Here is the Total Services Resale Implementation Timeline which I drew and we discussed
7 on Monday, April 8.

290803

TOTAL SERVICES RESALE IMPLEMENTATION TIMELINE

1

2 PHASE
 3 PHASE NAME
 4
 5 INTERVALS
 6 VOLUME OF ACCOUNTS
 7
 8
 9
 10
 11 AT&T REQUIRED
 12 TIMELINE
 13 BEST CASE TIMELINE
 14 WORST CASE TIMELINE

| PHASE 0 | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 |
|---|--|------------------------------------|-------------------------------------|---------------------------------|
| OBTAINING AGREEMENT IN PRINCIPLE | DEVELOPMENT AND OPERATIONAL TRIAL | SERVICE READINESS TRIAL | SERVICE DELIVERY RAMP UP | GENERAL AVAILABILITY |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

290804

**AT&T PROPRIETARY AND CONFIDENTIAL
 SUBJECT TO THE 4/2/96 CONFIDENTIALITY AGREEMENT BETWEEN AT&T AND BELLSOUTH**

APRIL 10, 1996
 JMB



CSG Market Development

1200 Peachtree St.
Atlanta, GA 30309

1 4/29/96

2 Suzie Lavett (VIA FAX 529-7496)
3 BellSouth
4 Room E56
5 3535 Colonnade Parkway
6 Birmingham, AL 35243

7 Dear Suzie:

8 As we committed last week, in an effort to provide BellSouth information which might help influence the
9 outcome of your electronic interface business case, we are providing the attached analysis.

10 The attached spreadsheet provides an analysis of the projected labor costs of our Customer Network
11 Service Center (CNSC). The CNSC will conduct all ordering, provisioning, and maintenance activities
12 required to interface with BellSouth in support of AT&T Local service. This analysis, which is based on
13 the best information available to date, is derived from service demand projections, time and motion studies,
14 and observed frequency of certain service activities. The analysis compares several different operational
15 modes: 1) fully mechanized two way electronic interface between CNSC and BellSouth, 2) Partially
16 mechanized one way electronic interface from CNSC to BellSouth, and 3) Fully manual process with paper
17 work orders prepared and faxed between the CNSC and BellSouth. [Note that for the purposes of this
18 analysis, electronic interfaces do not describe real time electronic access to BellSouth systems and
19 information, which remains AT&T's desired end state. Instead, electronic interfaces describe the
20 electronic passage of data between companies and automatic "flow through" to downstream systems within
21 AT&T. (e.g.: EDI interfaces currently under consideration by BellSouth.)]

22 After reviewing the attached, you will find that this preliminary analysis:

- 23 1. More clearly quantifies the projected AT&T local service demand previously shared with
24 BellSouth by J. Bradbury. (for AT&T's first year in the local services resale business)
25 2. Clearly depicts the order of magnitude of difference in the resources required to support
26 customers in manual, semi-electronic, and fully electronic modes.
27 3. Demonstrates the significant cost savings gained with electronic interfaces.

28 In order to accurately quantify the specific costs associated with the long term electronic interfaces which
29 would provide AT&T real time access to BellSouth systems/information (ECI), AT&T would need to
30 partner with BellSouth as we suggested in our 4/24 Core Team meeting. AT&T continues to be willing to
31 collaborate with BellSouth in order to finally make positive progress with the electronic interface issue
32 after eight months of discussion.

33 Sincerely,

34 Mason Fawzi
35 AT&T Negotiations Program Manager

36 cc: P. Foster

200895

PRELIMINARY
CUSTOMER NETWORK SERVICE CENTER
BELL SOUTH TSR HEADCOUNT ANALYSIS
CONNECTIVITY OPTION CNSC to LSP
HEADCOUNT REQUIREMENTS & LABOR COSTS

| <i>SUMMARY (estimated CNSC HC costs per order)</i> | ANNUAL VOLUME | ESTIMATED CUMULATIVE LABOR COSTS | ESTIMATED LABOR \$'S per UNIT | COST DIFFERENTIAL per UNIT | ESTIMATED WORKTIME per Prov ORDER |
|---|---------------|----------------------------------|-------------------------------|----------------------------|-----------------------------------|
| FULLY MECHANIZED TWO WAY ELECTRONIC INTERFACE CNSC ↔ LSP. | | | | | |
| PARTIALLY MECHANIZED ONE WAY ELECTRONIC INTERFACE CNSC → LSP. | | | | | |
| MANUAL PROCESS PAPER ORDERS MANUALLY PREPARED & FAXED | | | | | |

| <i>DETAIL CNSC HC & LABOR COST ESTIMATES</i> | | MONTH 1 | MONTH 2 | MONTH 3 | MONTH 4 | MONTH 5 | MONTH 6 | MONTH 7 | MONTH 8 | MONTH 9 | MONTH 10 | MONTH 11 | MONTH 12 |
|---|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| 1) FULLY MECHANIZED (TWO WAY INTERFACE) (CNSC ↔ LSP) | CUMULATIVE LINES | | | | | | | | | | | | |
| | HEADCOUNT | | | | | | | | | | | | |
| | CUMULATIVE LABOR COSTS | | | | | | | | | | | | |
| 2) PARTIALLY MECHANIZED (ONE WAY INTERFACE) (CNSC → LSP) | CUMULATIVE LINES | | | | | | | | | | | | |
| | HEADCOUNT | | | | | | | | | | | | |
| | CUMULATIVE LABOR COSTS | | | | | | | | | | | | |
| 3) MANUAL PROCESS (PAPER WORK ORDERS) (PAPER WORK ORDERS FAXED TO & FROM CNSC & LSP) | CUMULATIVE LINES | | | | | | | | | | | | |
| | HEADCOUNT | | | | | | | | | | | | |
| | CUMULATIVE LABOR COSTS | | | | | | | | | | | | |

ASSUMPTIONS:

- 1) This analysis was prepared to demonstrate the Headcount and cost efficiencies gained through an electronic interface between the CNSC and BellSouth.
- 2) Headcount and labor cost estimates were derived based on time study data of the CNSC provisioning and maintenance processes. Allowances were made to adjust the process time to reflect the three different connectivity scenarios discussed below.
- 3) The Bell South Headcount analysis presents the Headcount requirements for three different connectivity scenarios between the CNSC and BellSouth.
 - Scenario 1 - assumes a fully mechanized process between the CNSC and BellSouth with a two way electronic interface between the CNSC and BellSouth. Work Orders electronically flow between the various Work Centers.
 - Scenario 2 - assumes a partially mechanized process between the CNSC and BellSouth with a one way electronic interface between the CNSC and BellSouth. Work Orders flow electronically from the CNSC to BellSouth. BellSouth to the CNSC is via Fax or E-Mail.
 - Scenario 3 - assumes a completely manual process between the CNSC and BellSouth. Manually prepared Work Orders will be faxed to and from the CNSC to BellSouth.
- 4) Headcount and labor cost estimates represent Occupational, Supervisor and Management staffing requirements only. The estimate does not account for other Mgmt Positions such as Database Mgr's, Network Mgr's, etc. required to support the forecasted volume.
- 5) Headcount and labor cost estimates include allowances for Disconnects, Rejects, Changes, Jeopardies, Suspends, Restores and Maintenance for troubles and provisioning errors.
- 6) The analysis is proprietary and intended for AT&T internal use only.
- 7) The estimated Headcount and labor cost requirements are preliminary and therefore subject to change. Refinements will occur concurrent with the receipt of any new information concerning connectivity option, demand, or other.

200896

*Electronic
Interface*

A. M. M. E.



CSG Market Development
5/23/96

1200 Peachtree St.
Atlanta, GA 30309

To: S. Lavett

From: P. Foster

RE: AT&T Forecast and Letter

I wanted to make you aware of an omission from the 5/22/96 forecast cover letter that I faxed to you last night. The one word omission may materially impact your interpretation of the letter. The last sentence in the third paragraph on the second page should read as follows: "Put another way, [significant] TSR discounts and effective operational interfaces which deliver service concurrently and at parity with BellSouth will make TSR a more attractive approach for AT&T".

As a result, I am re-sending a revised copy of the letter and will hand deliver the original when we meet later this week.

P. Foster

200928



CSG Market Development

1200 Peachtree St.
Atlanta, GA 30309

1 May 22, 1996

2 Via Fax and Hand Delivery

3 Suzie Lavett
4 Lead Negotiator
5 BellSouth
6 3535 Colonade Parkway
7 Birmingham, AL

8 Dear Suzie:

9 This letter responds to your May 6, 1996 memo in which you request revised AT&T
10 forecast data for BellSouth's use in resource and other planning for electronic interfaces.

11 First, I would like to comment on your statement that "It would assuredly be imprudent
12 for BellSouth to continue to work toward these and other electronic interfaces unless
13 significant and protracted resale demand exists." The Telecommunications Act of 1996
14 does not condition an ILEC's obligation to provide comparable capabilities to requesting
15 carriers on any sort of demonstration of a "resale demand". Also, as we have discussed, in
16 competitive markets, suppliers must often take risks without the luxury of guaranteed
17 returns. These issues aside, we have provided the attached forecast data which represents
18 our current best assessment of demand for AT&T local service through December 2001.
19 As you can see, AT&T's forecasted demand is sufficiently large that management of
20 wholesale operations with manual processes would be inefficient and would not meet
21 AT&T's needs for comparable service and capabilities. Other reseller demand will further
22 impact BellSouth's ability to manage manual interface processes efficiently.

23 Secondly, BellSouth should not assume that Total Services Resale (TSR) is only a short-
24 term alternative for AT&T. The "BellSouth Study" (which we have not seen), which
25 concluded that resale was not a viable long-term alternative for AT&T, has apparently
26 failed to recognize that the wholesale market mandated by the Act is likely to be a robust
27 one, and may have prejudiced BellSouth's desire to pursue robust operational interfaces in
28 support of TSR. It would be helpful if BellSouth would provide the studies which
29 concluded that TSR was not a viable long-term alternative for AT&T. If BellSouth would
30 provide this information, it would provide a solid basis for further discussions aimed at
31 understanding the future wholesale supplier/buyer relationship between our companies.

32 As you have requested, the attached data provides projected demand for both residence
33 and business classes of service through December 1997. Although not requested, we have

200929

1 also attached annual forecasts through 2001. [AT&T is providing the attached forecast
2 under the conditions outlined in the confidentiality agreement executed between BellSouth
3 and AT&T. Accordingly, this information should be protected from BellSouth's retail
4 units.] Note that we have provided both a "high" and "low" demand assessment. Due to
5 the uncertainties associated with a market that is monopoly based and in pre-competitive
6 stages, and the facts discussed below, we are unable to project within a +/- 5% range as
7 you request. For our joint planning purposes, you may assume that the volume is
8 distributed approximately in proportion to the size of your business in each state within the
9 region. Obviously, the actual distribution may be impacted by differing TSR discounts,
10 access charges, competitive alternatives, etc.

11 The amount of this forecast that will take the form of "unbundled loops", "unbundled
12 ports", and the other unbundled elements desired by AT&T is dependent on BellSouth's
13 pricing decisions for these unbundled elements and for TSR. These BellSouth pricing
14 decisions will directly impact AT&T's network build decisions.

15 As was discussed at the May 8, 1996 Core Team meeting, AT&T is a rational consumer.
16 Accordingly, we will make "build versus buy" decisions which maximize benefits for
17 AT&T customers and shareholders. As I am sure you are aware, it is not economically
18 prudent for AT&T to overbuild entire incumbent LEC networks. In addition, capital
19 earmarked for AT&T local network construction has not been fully allocated to specific
20 markets. The attractiveness of the TSR discount and the degree to which BellSouth's
21 wholesale processes allows AT&T to effectively serve its customers will be key in
22 influencing such decisions. Put another way, significant TSR discounts and effective
23 operational interfaces which deliver service concurrently and at parity with BellSouth will
24 make TSR a more attractive approach for AT&T.

25 We are providing this information in spite of the uncertainties of a market that will mature
26 from a monopoly to competition:

- 27 1. Until AT&T can quantify TSR discounts, access price reductions, and the efficiency of
28 operational interfaces provided by BellSouth, we cannot determine where to deploy
29 capital.
- 30 2. AT&T will provide local service through a mosaic approach, utilizing TSR, unbundled
31 network elements, ALEC leases, and full AT&T build scenarios to reach customers.
32 Because we are creating the capability to support a variety of unbundled network
33 elements and network configurations provided by multiple suppliers, the degree to
34 which we utilize unbundled network elements from BellSouth will depend upon TSR
35 discount levels, the prices of facilities-based competitors, the scope of their networks,
36 and the competitiveness of BellSouth's unbundled network elements compared to
37 other facilities-based competitors. Because the number of facilities-based competitors
38 is fluid, and the relative cost of unbundled network elements and TSR is currently
39 unknown, we cannot fully project the degree to which it will be rational for AT&T to
40 utilize unbundled network elements.

1 In closing, I find it necessary to respond to comments in your May 6 memo regarding the
2 work that BellSouth has completed in support of developing operational interfaces to
3 accommodate the initial entry of alternative local service providers. While some progress
4 has been made, BellSouth's progress to date falls short of AT&T's expectations and
5 BellSouth's obligations under the Act and that which would be required for any world
6 class business to service its customers effectively. I believe the operational interfaces
7 developed by BellSouth to date rely primarily upon manual processes, fax transmissions,
8 and manual data entry. Additionally, while BellSouth has assessed the resources required
9 to provide number administration via ATLAS for resellers, this small step was
10 accomplished only after 8 months of negotiations. Additionally, AT&T has yet to actually
11 gain access to ATLAS. I am, however, encouraged by the cooperative activity
12 undertaken by our companies within the last two weeks to develop EDI interfaces. I hope
13 that the progress made in this area will be swift and significant.

14 If you have any questions or comments, please do not hesitate to call.

15 Sincerely,



16 Preston Foster
17 Lead Negotiator
18 AT&T

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| | | AT&T Demand View - High (BellSouth Territories) | | | |
|-----------------|-------|---|-------------|-------------|-------------|
| | | 1998 | 1999 | 2000 | 2001 |
| CONSUMER | | | | | |
| | Lines | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| BUSINESS | | | | | |
| | Lines | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| TOTAL | | | | | |
| | Lines | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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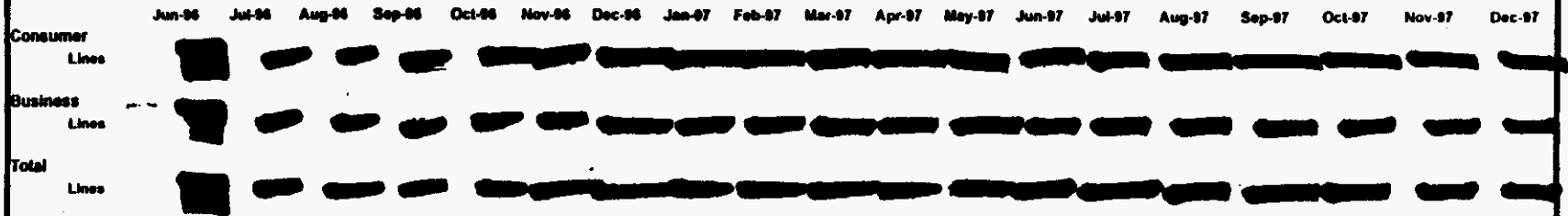
| | | AT&T Demand View - Low (BellSouth Territories) | | | |
|-----------------|-------|--|-------------|-------------|-------------|
| | | 1998 | 1999 | 2000 | 2001 |
| CONSUMER | | | | | |
| | Lines | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| BUSINESS | | | | | |
| | Lines | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| TOTAL | | | | | |
| | Lines | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

20032

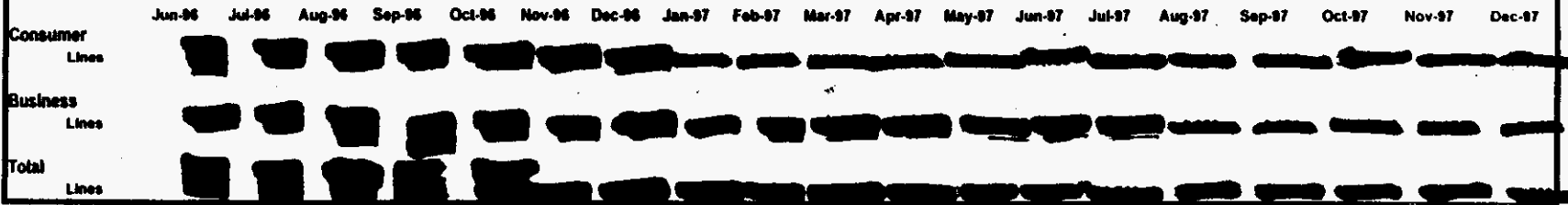
1 DRAFT - Subject to revision
2 Preliminary Forecast

3 **AT&T Demand View**
4 **(BellSouth Territories)**

5 **High Estimate**



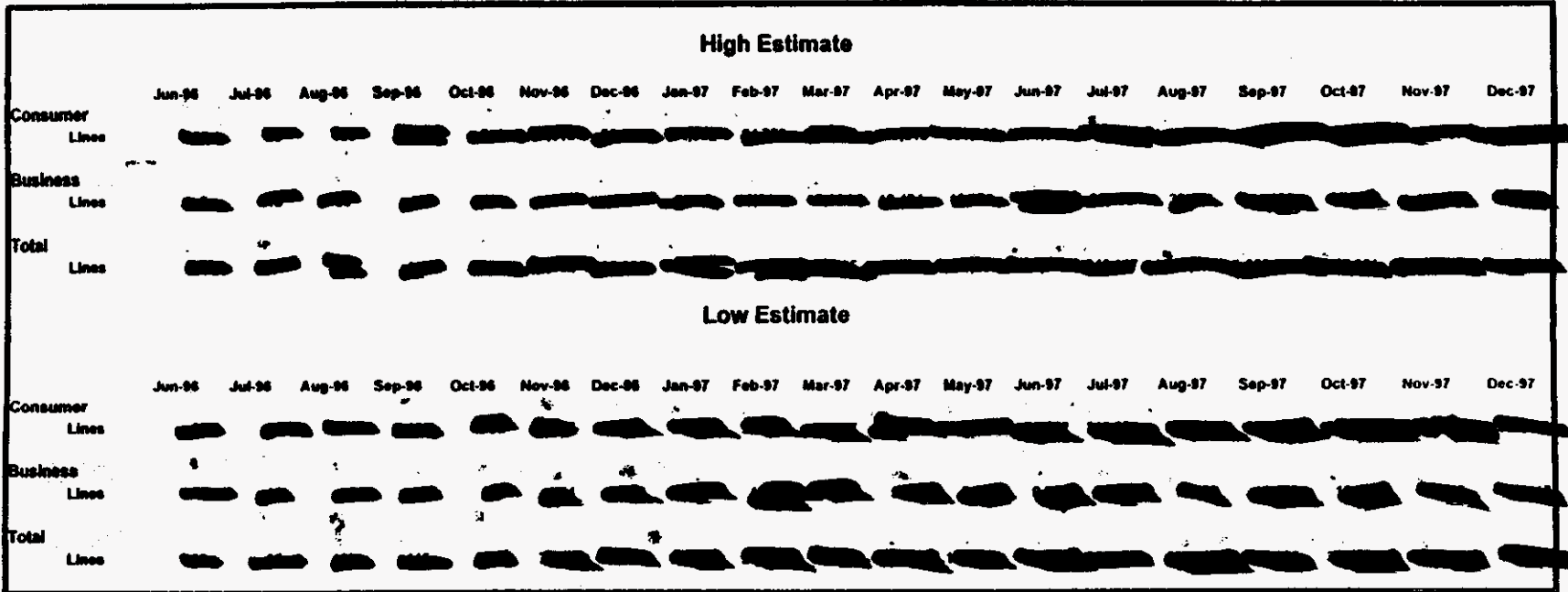
13 **Low Estimate**



200933

1 DRAFT - Subject to revision
2 Preliminary Forecast

3 **AT&T Demand View**
4 **(BellSouth Territories)**
5 **Cumulative Total By Month**



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LAST TRANSACTION REPORT FOR HP FAX-700 SERIES

VERSION: 01.00

2 FAX NAME: NEW MARKET DEVELOPMNT
3 FAX NUMBER: 4048108967

DATE: 23-MAY-96
TIME: 06:35

| 4 | DATE | TIME | REMOTE FAX NAME AND NUMBER | DURATION | PG | RESULT | DIAGNOSTIC |
|---|--------|---------|----------------------------|----------|----|--------|--------------|
| 5 | 23-MAY | 06:31 S | 404 420 0031 | 0:03:29 | 8 | OK | 663840100184 |

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S=FAX SENT
O=POLLED OUT(FAX SENT)

8 TO PRINT THIS REPORT AUTOMATICALLY. SELECT AUTOMATIC REPORTS IN THE SETTINGS MENU.
9 TO PRINT MANUALLY. PRESS THE REPORT/SPACE BUTTON. THEN PRESS ENTER.

1 UNBUNDLED NETWORK ELEMENT FORECAST TEAM

2 ORIGINAL TEAM ROSTER

- 3 Doug Ripley
- 4 Pat Baker
- 5 Mike Triebert
- 6 Joe Spencer
- 7 Robert Oakes
- 8 Fred Perrin
- 9 Robert McGrew
- 10 Jim Pierson

11 MERGED FORECAST TEAM ROSTER

- 12 ALL OF THE ABOVE, PLUS:
- 13 Michelle Augier
- 14 Bob Cavallo
- 15 Ray Crafton
- 16 Stephanie Marinac
- 17 Phyllis Worcester
- 18 Donna Hassebrock
- 19 Kirk Odegaard
- 20 Tom McGinty
- 21 Karen Dowdle

1

Assumptions for Local Demand Forecast*

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| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |

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[REDACTED]

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UNBUNDLED NETWORK ELEMENT FORECAST TEAM

MISSION STATEMENT

TO DEVELOP A FORECAST OF AT&T CUSTOMER DEMAND FOR EACH OF THE UNBUNDLED NETWORK ELEMENTS PROPOSED BY AT&T FOR NEGOTIATION WITH BELL SOUTH TELEPHONE AND SELECTED INDEPENDENT TELEPHONE COMPANIES (RANGE ESTIMATES OR DATA POINTS BOUNDED WITH CONFIDENCE AND VARIANCE FROM MEAN ARE OK) NO LATER THAN 5/01/96 FOR HANDOFF THROUGH AT&T WIRELESS TO OUR NEGOTIATING TEAMS. OUR TEAM'S OUTPUT IS EXPECTED TO BE A MATRIX OF "HOW MUCH", "WHICH ELEMENTS", BY MARKET, INITIALLY AND FOR THE NEXT FIVE YEARS.

SOURCES OF INPUT

| Information | Type | Source |
|---|------|------------|
| 1. Proposed Plan Of Record II, (Tier I, II, III Markets) Bennett | Data | H.S. |
| 2. Current MSA Population | Fact | D. Gibson |
| 3. A. CSB consumers, by market | Fact | K. Dowdle |
| 7 B. Business DS-0 equivalents, by market | Fact | K. Dowdle |
| 4. Market growth projections over 5 year period | Data | K. Dowdle |
| 5. Market Share objective | Data | R.E. Allen |
| 6. Connectivity Options, by LSO (Screening Tool output) | Data | P. Baker |
| 7. List of Unbundled Network Elements M.C. | Data | H.Q. |
| 8. Market Boundaries | Data | S.S. LSO |
| 9. U.N.E. Training | Data | H.Q. |
| 11. Market/Connectivity Options Timeline POR | Data | S.S. |
| 12. Ranging Parameters Territory, TSR Forecast Methodology | Data | Central |

1

Unbundling Assumptions

2 Basic Team Assumptions:

3 We will rely on known fact and data, wherever available as a foundation for our modeling
4 tool and allocation factors.

5 We will modify or model/tool based upon any source of new fact and data that will
6 displace one or more assumptions the team has made, and rerun the tool to determine the
7 magnitude and sensitivity of the change(s).

8 We will have been effective in our identification of resources and expertise required to be
9 inclusive and successful.

10 Aggregating assumptions in process rather than at the front of the design process will not
11 impact the validity of the team's output.

12 [REDACTED]

13 Tool Design:

14 The tool will be built by using a process of determining percentages that will apply to the
15 type of option that may require unbundled LEC elements [REDACTED]

16 [REDACTED]

17 The tool will be built by using a process of determining the percentages of customers will
18 use a particular unbundled element. [REDACTED]

19 [REDACTED]

20 The tool will take the forecasted total customers (provided by Karen Dowdle) and apply
21 to that, the percentages presented above. This will provide the total amount of customers
22 that will use the particular network unbundled element.

23 [REDACTED]

24 Network Elements

25 We will present an estimate to the LEC composed of 17 network elements

26 Two Designs:

1 • We have found two network designs that require a forecast for ordering unbundled
2 elements: AT&T build, and ALEC lease arrangement. The team has identified the
3 southern cities into three tiers: [REDACTED]
4 respectively.

5 • [REDACTED]
6 [REDACTED]

7 • [REDACTED]
8 [REDACTED]

9 • [REDACTED]

10 • [REDACTED]

11 **The Tool Output:**

12 • The intent is for each unbundled element to provide the number of customers
13 (Consumer) and DSOs (Business) that will utilize that element. We will not provide
14 the usage. For example we will not provide the number of database dips. We will
15 provide the number of customers who may need to make data base dips. BellSouth
16 must apply their knowledge to the numbers provided to them. Bell can deduce an
17 average number of dips per customer and apply this to the number of customers we
18 provide to them.

19 • Demand stated as a product of the tool will always be end of period rather than mid-
20 year, start of year or mean.

21 • The output is for a local service forecast only.

22 • Access is not unbundled.

23 [REDACTED]

24 [REDACTED]
25 [REDACTED]

26 [REDACTED]
27 [REDACTED]
28 [REDACTED]

29 **Network Element Assumptions**

1 • Loop combination is used for local loop because we do not know the LEC's network
2 design.

3 • [REDACTED]
4 [REDACTED]

5 • 100% of customers will use common elements (for things like 911, intraLATA,
6 Tandem access.)

7 • We will use the LSO percentages to determine the percent of customers that will use
8 [REDACTED] as a final methodology for service.

9 • The local loop option includes : [REDACTED]

10 • AT&T will provide Bell South a 9 state forecast.

11 [REDACTED]

12 [REDACTED]

13 [REDACTED]

14 • Preliminary analysis and tool outputs will assume:

15 [REDACTED]

16 the year percentage option use begin.

17 [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

22 • For tier two - Where AT&T [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

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200970

BellSouth TSR FOR TIER ONE CITIES - BUSINESS

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1997

1998

1999

2000

This section of the table is almost entirely redacted with thick black bars. Only the year headers are visible. A single line of text is visible in row 11, which appears to be a sub-header for the second table below.

1997

1998

1999

2000

This section of the table contains data for the years 1997-2000, but it is almost entirely redacted with thick black bars. Only a few small fragments of text are visible in the cells.

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| Summary Page | | <u>BellSouth 9 State View</u> | | | | |
|--|--|-------------------------------|------|------|------|------|
| | | 1997 | 1998 | 1999 | 2000 | 2001 |
| <i>Element</i> | | | | | | |
| NID | | | | | | |
| Loop Dist | | | | | | |
| Loop Con/Mult | | | | | | |
| Loop Feeder | | | | | | |
| Loop Combination | | | | | | |
| Local Switching | | | | | | |
| Operator Serv. | | | | | | |
| DA | | | | | | |
| Common Trans | | | | | | |
| Ded Trans | | | | | | |
| Data Switching | | | | | | |
| Dig Cross Con | | | | | | |
| SS7 M. Transfer | | | | | | |
| SST | | | | | | |
| SCP /data bases | | | | | | |
| Tandem Switching | | | | | | |
| AIN | | | | | | |
| * The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth | | | | | | |

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| Summary Page | | <i>BellSouth 9 State View</i> | | | | |
|--|--|--------------------------------------|-------------|-------------|-------------|-------------|
| | | 1997 | 1998 | 1999 | 2000 | 2001 |
| <i>Element</i> | | | | | | |
| NID | | | | | | |
| Loop Dist | | | | | | |
| Loop Con/Mult | | | | | | |
| Loop Feeder | | | | | | |
| Loop Combination | | | | | | |
| Local Switching | | | | | | |
| Operator Scr. | | | | | | |
| DA | | | | | | |
| Common Trans | | | | | | |
| Ded Trans | | | | | | |
| Data Switching | | | | | | |
| Dig Cross Con | | | | | | |
| SS7 M. Transfer | | | | | | |
| SST | | | | | | |
| SCP /data bases | | | | | | |
| Tandem Switching | | | | | | |
| AIN | | | | | | |
| * The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth | | | | | | |

200974

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Market Type :

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Year

1997

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Residence

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Element

- NID
- Loop Dist
- Loop Con/Mult
- Loop Feeder
- Loop Combination
- Local Switching
- Operator Serv.
- DA
- Common Trans
- Ded Trans
- Data Switching
- Dig Cross Con
- SS7 M. Transfer
- SST
- SCP/data bases
- Tandem Switching
- AIN

TOTAL

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Business

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Element

- NID
- Loop Dist
- Loop Con/Mult
- Loop Feeder
- Loop Combination
- Local Switching
- Operator Serv.
- DA
- Common Trans
- Ded Trans
- Data Switching
- Dig Cross Con
- SS7 M. Transfer
- SST
- SCP/data bases
- Tandem Switching
- AIN

TOTAL

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TAMPA

Market Type : [REDACTED]

Year

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Residence

| [REDACTED] | | | | TOTAL |
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| NID | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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Business

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| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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Market Type :

Year

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Residence

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Business

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Residence

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| Operator Serv. | | | | |
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Business

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| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
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| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
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| SCP /data bases | | | | |
| Tandem Switching | | | | |
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| <i>Residence</i> |
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Percent Element Use

Residence

Element
NID
Loop Dist
Loop Com/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

| Element | 1997 | 1998 | 1999 | 2000 | 2001 |
|------------------|------|------|------|------|------|
| NID | | | | | |
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| Loop Com/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
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| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
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| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

Percent Element Use

Business

Element
NID
Loop Dist
Loop Com/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

| Element | 1997 | 1998 | 1999 | 2000 | 2001 |
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| NID | | | | | |
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| Loop Com/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

Summary Page



| Element | 1997 | 1998 | 1999 | 2000 | 2001 |
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| NID | | | | | |
| Loop Dist | | | | | |
| Loop Com/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |

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Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP/data bases
Tandem Switching
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| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

* The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth

200981

14
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Market Type [REDACTED]

Total For All Years

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Residence

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-------|
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | TOTAL |
|------------|------------|------------|------------|------------|------------|-------|

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BellSouth 9 State View

Market Type : [REDACTED]

Year

1997

200983

Residence

| Element | [REDACTED] | | | | TOTAL |
|------------------|------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Business

| Element | [REDACTED] | | | | TOTAL |
|------------------|------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

BellSouth 9 State View

Market Type : [REDACTED]

46002
200934

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Residence

| | <u>Year</u> | <u>1998</u> | | TOTAL |
|------------------|-------------|-------------|--|-------|
| <i>Element</i> | | | | |
| NIU | | | | |
| Loop Dist | | | | |
| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

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Business

| | <u>Year</u> | <u>1998</u> | | TOTAL |
|------------------|-------------|-------------|--|-------|
| <i>Element</i> | | | | |
| NIU | | | | |
| Loop Dist | | | | |
| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

BellSouth 9 State View

Market Type :

41
42
43

AT&T Proprietary Restricted
Draft
(for internal purposes only)

Year 1999

JLS
8/3/96

200985

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Residence

| Element | | | | | TOTAL |
|------------------|--|--|--|--|-------|
| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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Business

| Element | | | | | TOTAL |
|------------------|--|--|--|--|-------|
| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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42
43

BellSouth 9 State View

Market Type : [REDACTED]

Year 2000

200986

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Residence

| Element | | | | | TOTAL |
|------------------|--|--|--|--|-------|
| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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Business

| Element | | | | | TOTAL |
|------------------|--|--|--|--|-------|
| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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43

BellSouth 9 State View

Market Type : [REDACTED]

Year 2001

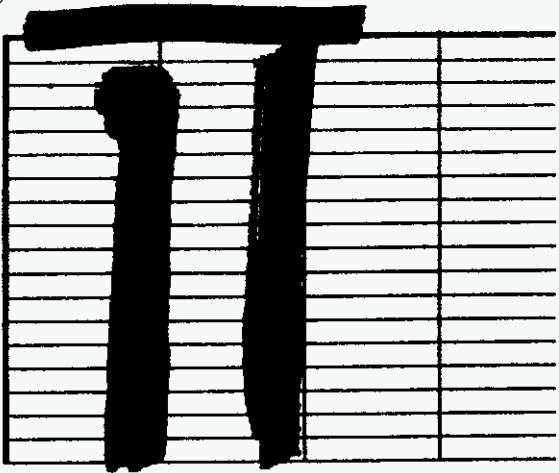
AT&T Proprietary Restricted 44
Draft 45
(for internal purposes only) 46

Residence

| Element | | | | | TOTAL |
|------------|--|--|--|--|-------|
| [REDACTED] | | | | | |

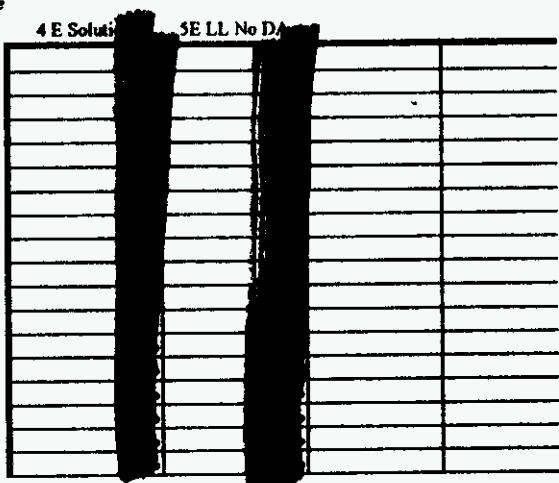
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Percent Element Use
Residence
Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN



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Percent Element Use
Business
Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

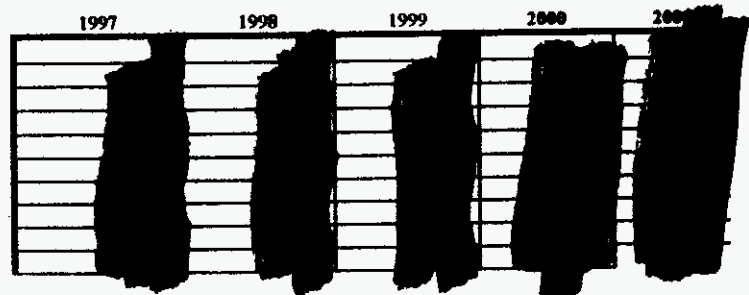


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Summary Page

BellSouth 9 State View

Tier 1 Markets
Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans



AT&T Proprietary Restricted
Draft
(for internal purposes only)

200988

JLS
6/3/96

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Ded Trans
Data Switching
Digi Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

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|------------|------------|------------|------------|------------|
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Markets include:

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|------------|
| [REDACTED] |
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* The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth

200939

17
18

BellSouth 9 State View

Market Type : [REDACTED]

19

Total For All Years

20
21
22
23
24

AT&T Proprietary Restricted
Draft
(for internal purposes only)

Residence

| | | | | | TOTAL |
|------------|------------|------------|------------|------------|------------|
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Elem | | | | | |
| NIU | | | | | |
| Loop Dist | | | | | |

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| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

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Business

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| | | | | TOTAL |
| <i>Elem</i> | | | | |
| NTU | | | | |
| Loop Dist | | | | |
| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

BellSouth 9 State View

Market Type: [REDACTED]

Year

1997

200931

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Residence

| Element | [REDACTED] | | | TOTAL |
|------------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP/data base | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Business

| Element | [REDACTED] | | | TOTAL |
|------------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP/data base | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Market Type : [REDACTED]

Year 1998

Residence

| Element | | | | | | TOTAL |
|------------------|------------|------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Business

| Element | | | | | | TOTAL |
|------------------|------------|------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

BellSouth 9 State View

Market Type : [REDACTED]

Year 1999

AT&T Proprietary Restricted
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(for internal purposes only)

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Residence

| Element | | | | | TOTAL |
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| NIU | | | | | |
| Loop Dist | | | | | |
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| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
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Business

| Element | | | | | TOTAL |
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| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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BellSouth 9 State View

Market Type : [REDACTED]

Year 2000

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Residence

| Element | | | | | TOTAL |
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| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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Business

| Element | | | | | TOTAL |
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| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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BellSouth 9 State View

Market Type : [REDACTED]
Year 2001

AT&T Proprietary Restricted
Draft
(for internal purposes only)

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Residence

| Element | | | | | TOTAL |
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Percent Element Use
Residence

Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

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Percent Element Use
Business

Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

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Summary Page

BellSouth 9 State View

Tier 2 Markets

Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans

AT&T Proprietary Restricted
Draft
(for internal purposes only)

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| Loop Feeder | | | | |
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| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
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| SCP /data bases | | | | |
| Tandem Switching | | | | |
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Business

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| | TOTAL | | | |
| <i>Element</i> | | | | |
| NIU | | | | |
| Loop Dist | | | | |
| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
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| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

Wise



William J. (Jim) Carroll
Vice President

Room 4170
1200 Peachtree St., NE
Atlanta, GA 30309
404 810-7262

1 June 5, 1996

2 **Via Hand Delivery**
3 Mr. Charles B. Coe
4 BellSouth Telecommunications, Inc.
5 675 West Peachtree Street, NE - Suite 4514
6 Atlanta, Georgia 30375

7 **SUBJECT: Proposed Agreement on Total Services Resale ("TSR") Issues**

8 Dear Charlie:

9 We have established an objective to try to reach closure on issues related to TSR by July 1,
10 1996. In furtherance of this objective, the attached proposal builds on the discussions we
11 have had to date.

12 I want to emphasize that I am making a "package proposal." No single item or sub-group
13 of items stands alone. This proposal is contingent upon BellSouth's acceptance of the
14 entire proposal.

15 I also emphasize that this entire proposal represents AT&T Proprietary Restricted
16 information containing commercially sensitive material whose disclosure to unauthorized
17 persons could harm AT&T. It is being provided under the terms of our confidentiality
18 agreement, entered into for purposes of negotiations under the Telecommunications Act of
19 1996, and therefore, may not be disclosed or used in any way by BellSouth in any
20 regulatory proceedings or with any other parties and should be restricted to individuals
21 within BellSouth with a "need to know" regarding the negotiations.

22 Even where disclosure is restricted to those having a "need to know" for purposes of our
23 negotiations, I caution BellSouth against disclosing single items or subgroups on a
24 standalone basis. Again, this is a package proposal and should always be represented by
25 BellSouth as such.

26 I look forward to your expeditious response.

27 Sincerely yours,

28 Attachments

201011

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**AT&T/BellSouth Southern Region
Total Services Resale ("TSR") Proposal**

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This outlines a region-wide proposal to resolve all issues related to Avoidable Costs in connection with TSR pursuant to the Telecommunications Act of 1996 (the "Act"). AT&T proposes the following:

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- **Region-wide Base Line ("B.L.") discount on all services available for [REDACTED] herein defined as prices actually charged by BellSouth to its customers) for both residence and business. The proposal embodied herein is based on a combination of analytical data (AT&T's Cost Model) and business judgment. This judgment is without the benefit of service specific avoidable cost studies by BellSouth (which, to date, BellSouth has not provided) and without the underlying, supporting cost data that would be required to validate such study results. If additional data becomes available that supports requesting more service specific discounts or different discount levels before execution of this proposal, this proposal may be withdrawn or modified by AT&T.**

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- **The B.L. discount will be indexed to BellSouth's Retail Rates. As those prices are reduced, the B.L. discount and other discounts described herein will apply to the lower prices.**

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- **Electronic interfaces will be operational by September 1, 1996. Until electronic interfaces are proven operational in a consistent manner that provides operational and customer parity to AT&T and its customers for ninety consecutive days, the following Operational Parity discounts will apply in addition to the B.L. discount and any Volume and Term discounts discussed below. The DMOQs (performance metrics) upon which the Operational Parity discounts will be eliminated will be mutually agreed upon by AT&T and BellSouth.**

| | | |
|---|---|-----------------|
| 1 | | Operational |
| 2 | | Parity |
| 3 | <u>Area for Additional Discount</u> | <u>Discount</u> |
| 4 | 1) Pre-Service Ordering Interfaces | 3% |
| 5 | 2) Service Order Processing and Provisioning Interfaces | 3% |
| 6 | 3) Directory Listing and Line Information Data Base | 3% |
| 7 | 4) Service Trouble Reporting Interfaces | 3% |
| 8 | 5) Daily Local Usage Data | <u>3%</u> |
| 9 | TOTAL | 15% |

- 10 • Volume and Term ("V&T") commitments will increase the Base Line
11 discounts as depicted below.

| 12 | <u>Minimum Commitment (3 Year Term)</u> | | |
|----|---|-------|-----------|
| 13 | Effective | Lines | B.L.+V&T |
| 14 | Date@ | (M)# | Discount* |
| 15 | [REDACTED] | | |
| 16 | [REDACTED] | | |
| 17 | [REDACTED] | | |
| 18 | [REDACTED] | | |
| 19 | [REDACTED] | | |
| 20 | [REDACTED] | | |
| 21 | [REDACTED] | | |
| 22 | [REDACTED] | | |

23 @Monthly Commitments start on the effective date. Commitments
24 are for cumulative resold lines (basic residence lines plus business
25 lines). The 1/1/99 Commitment is for twelve months.

26 #If commitment levels are achieved at an earlier date than the Dates
27 of Minimum Commitment, then that B.L. + V&T Discount will be
28 awarded at the earlier date(s).

29 *Discounts are off BellSouth's Retail Rates.

1 **This proposal is contingent upon the following:**

2 **1. Acceptance of this comprehensive package in total including the**
3 **"New Offer" column in the Attachment, which includes unresolved**
4 **TSR operational issues which have been identified to date.**

5 **2. Agreement on appropriate terms and conditions for resale of local**
6 **services including the following:**

7 **-Converting agreements reached to date on TSR operational**
8 **issues into mutually acceptable contract language.**

9 **-AT&T's right to use the resold services for its own use or resale**
10 **to others for purposes of offering services of any kind.**

11 **-AT&T's right to obtain local services pursuant to discounts**
12 **available by virtue of Commission orders or in any other**
13 **BellSouth agreements and/or applicable tariffs which AT&T**
14 **finds more favorable and count those purchases toward**
15 **fulfillment of its volume commitments.**

16 **3. Acceptable resolution of issues related to Unbundled Network**
17 **Elements ("UNEs").**

18 **4. BellSouth will notify AT&T of any agreements to resell local**
19 **services or to provide unbundled network elements into which it enters**
20 **where the prices, terms, and/or conditions are different than those**
21 **which have been made available to AT&T. In that event, AT&T shall**
22 **have the option to substitute those prices, terms, and conditions in**
23 **whole or in part for the relevant prices, terms, and conditions which**
24 **had been offered to AT&T.**

25 **Attachment**

THIS REPRESENTS A PROPOSAL FROM AT&T TO BELL SOUTH IN CONNECTION WITH THE NEGOTIATIONS UNDER THE FEDERAL TELECOMMUNICATIONS ACT OF 1996

| DESCRIPTION OF ISSUE | NEW OFFER |
|---|---|
| Services available for resale | All current and new BellSouth services shall be available for unrestricted resale at the agreed to discount except as may be noted below. For example, AT&T requests BellSouth to remove all tariff restrictions which prohibit or limit the aggregation and resale of services to unaffiliated users. |
| Grandfathered | Existing - AT&T would consider negotiating only specific current Grandfathered services which would be available for resale at the agreed to discounts. Future - AT&T proposes that prior to filing requests for Grandfathering additional services at the PSC, these plans would be reviewed and agreed to by AT&T. |
| Lifeline & Link-Up | AT&T proposes that Lifeline/Link-Up service be provided for resale at the Retail Rates to the end user, less the agreed to discounts. |
| N11 (except 411, 611 and 911) | BellSouth agrees to not offer of new N11 services for 12 months from the date of any agreement, but that the existing N11 offerings would not be available for resale. |
| 911, E911 | BellSouth agrees to provide the necessary unbundled elements in order for AT&T to provide a comparable 911/E911 offering to government agencies. Such unbundled elements would be available by 1/1/97. |
| Contract Service Arrangements, Special Arrangements, and Promotions | BellSouth will make all CSAs, SAs, and Promotions available for resale on a "switch as is" (transfer of the contract) basis until the "B.L. + V&T" discount is at or exceeds 40%, after which CSAs, SAs, and Promotions would not be available for resale. |
| State Specific Discount Plans and Services (e.g., Louisiana Education Discount) | BellSouth agrees that these services are available for resale at the agreed to discounts. |
| Services with no discount Installment Billing | AT&T will agree to the non-availability of Installment Billing for resale, provided that AT&T and BellSouth reach acceptable payment terms as part of the terms and conditions of the commercial contract executed between the two companies. |
| Non-Recurring Charges | OUTFLOC - BellSouth will charge [redacted] per "switch as is" change, until electronic interfaces are operational, at which time BellSouth will charge the TSLRIC cost of processing a "switch as is" order. All Other - BellSouth agrees that non-recurring services will be available for resale at the agreed to discounts. |
| Inside Wire Maintenance Program | AT&T proposes that this service be provided for resale at the agreed to discounts. |

AT&T Proprietary

Contains Commercially Sensitive Information

This Proposal May Be Disclosed By BellSouth Only to Employees or Representatives of BellSouth with a "Need to Know" Pursuant to the BellSouth/AT&T Confidentiality Agreement Entered into for Purposes of Negotiations Under the Telecommunications Act of 1996. Disclosure to Any Other Party without the Written Permission of AT&T is Prohibited.

THIS REPRESENTS A PROPOSAL FROM AT&T TO BELL SOUTH IN CONNECTION
WITH THE NEGOTIATIONS UNDER THE FEDERAL TELECOMMUNICATIONS ACT OF 1996

| | |
|--|---|
| Notification Process | |
| Existing and New Services | <p>Price Changes - BellSouth agrees to put in place an electronic system to provide for notice of proposed price changes 30 days before they are proposed to become effective. The target date for process definition and review is 9/1/96. If the process is agreed to, the implementation effective date would be 10/1/96.</p> <p>New Services, Withdrawals of Existing Services, Other Changes to Existing Services - AT&T proposes that BellSouth provide AT&T advance notification of new services, discontinued services and changes to existing services concurrent with BellSouth's internal notification for process, system, and operational changes.</p> |
| Technology and Operational Changes | BellSouth agrees to put in place an electronic system to notify AT&T at least six months before any new technology or operational changes are made. |
| Branding | |
| General Employee Contact with AT&T Customers | AT&T proposes that BellSouth produce a documented plan around its methods and procedures, training and approaches that would be used with BellSouth's personnel to assure that BellSouth meets AT&T's branding requirements. The process, methods and procedures, training and scripts will be reviewed and agreed to by AT&T and BellSouth by 8/1/96. |
| Installation and Repair Contact with AT&T Customers | <p>AT&T proposes that AT&T provide branded material to BellSouth Installation and Repair forces to use for customer contact/leave behind material at no charge to BellSouth. AT&T will stock and replenish the material to assure availability at the locations designated by BellSouth.</p> <p>AT&T requests that BellSouth support the arrangement by pre-notification of material supply exhaust to AT&T so stock is readily available. Specific conditions and assurance that the stock is used properly by technicians will be agreed to by BellSouth and AT&T by 9/1/96.</p> |
| Operator Services and Directory Assistance | AT&T proposes that Operator Services and Directory Services brand to AT&T where AT&T utilizes BellSouth resold Operator and Directory Services. AT&T would review the scripts used by BellSouth operators as they handle operator services and directory assistance. |
| Electronic Interfaces - Providing Customer Usage Data in Unrated Format | BellSouth has agreed to provide unrated customer usage data. AT&T requests that BellSouth provide usage data sample prior to 6/5/96, in order for AT&T to analyze. Provided the indicators and elements needed for billing retain the integrity AT&T needs and requires, AT&T will accept BellSouth's unrated messages process of unrated to rated to unrated. |

AT&T Proprietary

Contains Commercially Sensitive Information

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201016

THIS REPRESENTS A PROPOSAL FROM AT&T TO BELL SOUTH IN CONNECTION
WITH THE NEGOTIATIONS UNDER THE FEDERAL TELECOMMUNICATIONS ACT OF 1996

| | |
|--|---|
| OUTFLOC Information | |
| Local service | BellSouth will meet the requirements in full as outlined in AT&T's Local Account Maintenance document dated 3/27/96. |
| Long distance service | Where AT&T is the customer's Local Service Provider, any order changing the customer's PIC is to be sent from AT&T. BellSouth will reject PIC changes from IXCs and notify AT&T of such rejection. |
| Direct Routing to AT&T for Operator Services, Directory Assistance, and Repair | BellSouth agrees to provide direct routing to AT&T, utilizing the best technical solution available. In the event a solution is not forthcoming by 10/1/96, or if the solution cannot be implemented in a specific LSO due to equipment exhaust where additional capacity cannot be added, AT&T will utilize BellSouth operator, directory, and repair services, branded to AT&T as proposed above. |
| Rates to be Applied when AT&T Local Customer Makes a Local/IntraLATA Collect, 3rd Number, or Calling Card Call to a BellSouth Customer | AT&T's position is that the "Originating" Local Service Providers' rates apply; that BellSouth will record the call and send the "unrated" message to AT&T. AT&T would "rate" the call and send it back to BellSouth for billing. |

AT&T Proprietary
Contains Commercially Sensitive Information

This Proposal May Be Disclosed By BellSouth Only to Employees or Representatives of BellSouth with a "Need to Know" Pursuant to the BellSouth/AT&T Confidentiality Agreement Entered into for Purposes of Negotiations Under the Telecommunications Act of 1996. Disclosure to Any Other Party without the Written Permission of AT&T is Prohibited.

201017

Wise

Andre Mule' 7/20



William J. (Jim) Carroll
Vice President

Room 4170
1200 Peachtree St. NE
Atlanta, GA 30309
404 810-7262

1 June 21, 1996

2 Via Hand Delivery:

3 Mr. Charlie B. Coe
4 Group President - Customer Operations
5 BellSouth Telecommunications, Inc.
6 675 W. Peachtree Street
7 Suite 4514
8 Atlanta, Georgia 30375

9 Dear Charlie:

10 We have reviewed BellSouth's pricing proposal received at the close of business on Friday,
11 June 14. In addition, my conversations with you and Scott Schaefer lead me to believe that
12 while you did not make a counter-proposal to my June 5 Local Services Resale ("LSR")
13 proposal, you are interested in the concept of Volume and Term ("V&T") discounts, but as you
14 put it, "not at AT&T's proposed discount levels." Therefore, this letter invites you to submit a
15 counter-proposal for LSR, and at the same time, transmits AT&T's proposal for pricing
16 Interconnection and Unbundled Network Elements ("UNEs"). This proposal is contingent
17 upon achieving an agreement with BellSouth with respect to price in all three of these areas of
18 LSR, Interconnection, and UNEs.

19 Contrary to your beliefs, our June 5 LSR proposal did represent movement from AT&T's
20 publicly advocated Base Line discount of 28% to 30% as proposed in the regulatory arena. In
21 addition, we made specific commitments. We would welcome your counter-proposal.

22 With respect to Interconnection and UNEs, the prices received from you on June 14 are not
23 acceptable. The attachments for Interconnection and UNEs are underpinned by our analysis of
24 BellSouth's responses to data requests and by our own studies. We would welcome the
25 opportunity to discuss the attachments and the June 5 LSR proposal, as well as any counter-
26 proposal which BellSouth might make, as soon as possible.

27 Please understand that our proposals are based on the best intelligence to date. As would any
28 customer, we reserve the right to expand and clarify our needs as better information becomes
29 available. In order to better define our UNEs, we need information requested by our Wayne
30 Ellison of Reg Starks, as outlined at the Core Team meeting on Wednesday, June 19. Please
31 provide the requested information no later than June 26. The following Subject Matter Experts
32 are available by phone and in person to answer questions in the areas identified:

| | | | |
|----|---------------|-----------------------------|--------------|
| 33 | Mike Guedel | Attachment A (Interconnect) | 404-810-7420 |
| 34 | Wayne Ellison | Attachment A (UNEs) | 404-810-8068 |
| 35 | Neil Brown | June 5 Proposal (LSR) | 404-810-7269 |

201076

1 I emphasize that all AT&T proposals contain AT&T Proprietary Restricted information
2 containing commercially sensitive material whose disclosure to unauthorized persons could
3 harm AT&T. It is being provided under terms of our confidentiality agreement, entered into for
4 the purposes of negotiations under the Telecommunications Act of 1996, and therefore, may
5 not be disclosed or used by BellSouth in any regulatory proceedings or with any other parties
6 and should be restricted to individuals within BellSouth with a "need to know" regarding the
7 negotiations.

8 Even where disclosure is restricted to those having a "need to know" for purposes of our
9 negotiations, we caution against disclosing single items or subgroups on a standalone basis.
10 Again, this is a package proposal and should always be represented as such by BellSouth.

11 I look forward to your expeditious response.

12 Sincerely yours,

A handwritten signature in black ink, appearing to be "S. Schaefer", written over a circular stamp or mark.

13 Copies to: Mr. Scott Schaefer
14 Ms. Suzie Lavett

15 Attachments

1 INTERCONNECTION PRICING PROPOSAL

2 Definitions

3 A. Interconnection (for the purposes of this section) is defined as the act of linking two or more
4 telecommunications networks for the purposes of terminating local telephone calls.

5 B. Total Service Long Run Incremental Cost (TSLRIC) is the cost of the forward looking least
6 cost technology of providing a service, relevant group of services, or basic network functions,
7 given that the company already produces all of its other services. Alternatively, TSLRIC
8 represents the costs avoided if the telecommunications provider had never offered the particular
9 service, group of services, or network function in question.

10 C. Bill and Keep is a reciprocal compensation arrangement whereby the compensation that one
11 company offers to another for the completion of its calls is the agreement to complete the other
12 company's calls in a like manner.

13 Physical Arrangement

14 A. BellSouth will make interconnection arrangements available at all tandem switching and end
15 office switching locations.

16 B. At the discretion of AT&T, local interconnection may be accomplished via one-way local
17 trunks, or two-way local trunks, or AT&T may choose to deliver both local and toll traffic over
18 the same trunk group(s). With respect to the latter scenario, AT&T will have to provide an
19 auditable Percent Local Usage (PLU) to facilitate billing if it desires application of the local
20 interconnection rate.

21 Pricing

22 A. For the first twelve months of this agreement, compensation for the exchange of local traffic
23 will be accomplished on a "bill and keep" basis. Following the first twelve months, at the
24 request of either party, mutual compensation may be set at the TSLRIC that BellSouth incurs in
25 providing the interconnection service on a per minute of use basis. The TSLRIC of
26 interconnection is recognized to be less than [REDACTED] of use. For the first twelve
27 months of implementation of the TSLRIC compensation, each party's payments will be limited
28 [REDACTED] the calculated reciprocal payment on a monthly billing basis.

29 B. In the event, a local call originated by a customer of AT&T traverses a BellSouth (or other
30 third party) tandem switch to be completed to another ALEC, BellSouth (or other third party)

- 1 will be entitled to charge AT&T the TSLRIC associated with the tandem switching function.
2 The TSLRIC of the tandem switching function is estimated to be no more than [REDACTED]
3 minute of use.
- 4 C. Compensation for the termination of toll traffic (or the origination of 800 traffic) between the
5 interconnecting parties will be accomplished through applicable interexchange access charges.
- 6 D. When the completion of a toll call involves both BellSouth and AT&T facilities, standard
7 meet point billing arrangements will apply. For example, if an incoming call traverses Company
8 "A's" tandem switch to be completed at Company "B's" end office switch, then company "A" is
9 entitled to bill the access charges associated with the dedicated transport (from the IXC pop to
10 the tandem) and the tandem switching function (also common transport if applicable, but not the
11 Residual Interconnection Charge). Company "B" is entitled to bill all other applicable switched
12 access charges.
- 13 E. In the event a toll call is completed through an interim service provider's number portability
14 arrangement (remote call forwarding, flexible DID, other) to a Customer of the new Carrier of
15 Record, the new Carrier of Record is entitled to applicable end office terminating switched
16 access charges (e.g., local switching, line termination, carrier common line, residual
17 interconnection charge, etc.). The company forwarding the call will be considered to be
18 adequately compensated through the charges that it receives for porting the number.
- 19 F. BellSouth will include basic white page listings for AT&T residential customers and basic
20 yellow page listings (as well as business white page listings as available to BellSouth customers)
21 for AT&T business customers. BellSouth will include all AT&T customers in its distribution of
22 white and yellow pages. BellSouth will not charge AT&T or AT&T's customers for these
23 services. Additional enhanced directory listings will be made available to AT&T customers at
24 the same rates, terms, and conditions as available to BellSouth customers. AT&T will be
25 responsible for providing BellSouth accurate directory information in an established format and
26 in a timely manner.
- 27 G. This proposal is contingent upon reaching agreement with respect to Local Services Resale
28 (LSR) and Unbundled Network Elements (UNEs).

AT&T Proprietary



Contains Commercially Sensitive Information

**This Proposal May Be Disclosed By BellSouth Only to Employees or
Representatives of BellSouth with a "Need to Know" Pursuant to the
BellSouth/AT&T Confidentiality Agreement Entered into for Purposes of
Negotiations Under the Telecommunications Act of 1996. Disclosure to
Any Other Party without the Written Permission of AT&T is Prohibited.**

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|--|---|--|---|
| | | | Recurring | NRC |
| Network Interface Device | Twisted Pair | For 2 or 4-wire termination | None | All States:  |
| | Smart-Jack | T1 Line | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | Fiber | | BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T | |
| | Coax | | BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T | |
| Distribution Media (Loop Distribution) | Various capabilities, incl. twisted pair, DS1, DS3, Optical SONET OCn, Analog Radio Freq., Broadband | | AT&T and BellSouth agree to work together to expeditiously resolve issues regarding the provision of this unbundled element, and to reach a resolution satisfactory to both parties. | |
| Loop Concentrator/Multiplexer | Virtual remote terminal @ DS0 and DS1 levels, DLC system offering | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Loop Feeder | Various options, including twisted pair, DS1, Fiber OCn | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Loop Combination | 2W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data, etc. |  No SLC billing by BellSouth to AT&T or its customers | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |

This proposal is contingent upon reaching agreement with respect to Local Services Resale (LSR) and Interconnection.

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|---------------------------|-------------------------------|--|--|--|
| | | | Recurring | NRC |
| Loop Combination, Cont'd. | | | | |
| | 4W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data, etc. | No SLC billing by BellSouth to AT&T or its customers | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | DS1 | Terminated on DSX-1 | All states: [redacted] month | See comment under 4W NRC. |
| | DS3 | Fiber Optic cable | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | Optical SONET OCn | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | SONET ring, terminated in CO | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | SONET ring between customers | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | IOC Mileage | LEC office to ALEC office | | Dedicated local transport charges apply. |
| | Channelization | Converts up to 96 VG loops to DS1 level for connection with ALEC POI. Concentrated or non-concentrated @ option of customer. | [redacted] monthly per system plus [redacted] per circuit. | [redacted] for first system and [redacted] for each additional system, plus [redacted] per circuit. |
| | Distance sensitive loop rates | | | To the extent BellSouth offers rates to retail customers reflecting distance sensitive loop charges it shall provide loops to AT&T at equivalent charges. This provision applies to both implicit and explicit deaveraged pricing. |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

Attachment B

| Item | Type | Explanation | AT&T Price Proposal | |
|--|--|--|--|---|
| | | | Recurring | NRC |
| Loop Combination and Sub-Loop Elements | Loop cost variance by geographic area | Wire center, census group, etc. | Proposed loop prices are composite state averages. BellSouth will perform cost studies to determine geographic cost differences, and implement prices that reflect those differences. | |
| Local Switching | Features | Route operator and directory assistance traffic to customer's preferred carrier. | None | None |
| | | Route local, intraLATA, interLATA, international traffic to customer's preferred carrier. | None | None |
| | | Translations to direct AIN queries to AT&T SS7 network, to receive responses, and to continue call handling in accordance with responses. | None | None |
| | Line Interface | Residence Service. Standard tip & ring. Includes loop start, ground start, on-hook | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | Business Service. Standard tip & ring. Includes loopstart, groundstart, on-hook | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. | |
| | Coin. Includes public, semi-pub, COCOT, and options. | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|-----------------------|---|--|---|
| | | | Recurring | NRC |
| Local Switching, Cont'd | Line Interface Cont'd | | All States: [redacted] month | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | 2W ISDN | | |
| | | | All States: [redacted] month per line interface | See Note for 2W ISDN |
| | | DS1 ISDN | | |
| | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | | TR 08- Dig Loop Cxr | | |
| | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | | TR 303- Dig Loop Cxr | | |
| | | | Monthly: Al - [redacted] Fla - [redacted] Ga - [redacted] Ky - [redacted] La - [redacted] Ms - [redacted] N.C. - [redacted] S.C. - [redacted] Tn - [redacted] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | 2-Wire/ 4-Wire analog interface to PBX | | |
| | | | All States: [redacted] month | See Note for 2W ISDN |
| | | DS1 interface to PBX or CPE | | |
| | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | | Switched Fractional DS1 with capabilities to configure Nx64 channels, n <25 | | |
| | | | All States: [redacted] month per equipped line | None |
| | | Direct in Dial | | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|--|---|--|---|
| | | | Recurring | NRC |
| Local Switching. Cont'd | | | All States: [REDACTED] onth per equipped line | None |
| | Rotary | | | |
| | End office switching functions, including intraoffice, interoffice, toll, access, and local | | All States: Originating, first minute: [REDACTED] Originating, add'l minute [REDACTED] Terminating, per minute: [REDACTED] | None |
| | | Originating and Terminating switching | | |
| | BellSouth proposed universal local call termination option. Includes local switching, common transport, signaling, and far end local switching to terminate local calls. | Originating and Terminating switching plus local trpt. Includes intraoffice. Also includes calling to expanded local and toll substitute plan areas. | All States: Originating, first minute: [REDACTED] Terminating, add'l minute [REDACTED] Terminating, per minute: [REDACTED] Includes access traffic and calling to and from all points in expanded and toll substitute areas. | None |
| | Features | | None | All States: [REDACTED] feature activated after initial service installation. |
| | | Residential Features | | |
| | | CLASS features | None | All States: [REDACTED] feature activated after initial service installation. |

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | | |
|-----------------------------|-----------------------------|--|---------------------------------------|--|------|
| | | | Recurring | NRC | |
| Local Switching (Cont'd) | Features (Cont'd) | | None | All States: [redacted] feature activated after initial service installation. | |
| | | Business/ Centrex Features | | | |
| | AIN Features | | None | All States: [redacted] feature activated after initial service installation. | |
| | | | | | |
| | Trunk Terminations | | CAMA ANI | None | None |
| | | | | None | None |
| | | | FGB | | |
| | | | | None | None |
| | | | FGD/ IEC Operator | | |
| | | | | None | None |
| | | | DS 3 | | |
| | | | None | None | |
| | | 64 kbps clear channel | | | |
| | | | None | None | |
| | | Switched digital- 56 & 64 kb/s | | | |
| | | | Included in individual element rates. | | |
| | Loop/ Switch cross-connect | Connection of unbundled switch and colocated loop elements. | | | |
| | | | Included in individual element rates. | | |
| | Switch/ Trunk Cross-connect | Connection of unbundled switch and colocated transport elements. | | | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | | |
|-------------------------|---------------------------|-------------------------|---|---|------|
| | | | Recurring | NRC | |
| Local Operator Services | 0+ Calling Card | 0+ calling card | [REDACTED] call | None | |
| | | automated calling card | [REDACTED] r call | None | |
| | Station | 0- calling card | [REDACTED] r call | None | |
| | | 0- bill to third | [REDACTED] call | None | |
| | | 0- collect | [REDACTED] call | None | |
| | | 0- no attempt | [REDACTED] call | None | |
| | | 0+ bill to third | [REDACTED] call | None | |
| | | Automated bill to third | [REDACTED] r call | None | |
| | | 0+ collect | [REDACTED] call | None | |
| | | automated collect | [REDACTED] r call | None | |
| | | sent paid | [REDACTED] r call | None | |
| | | Person | 0- calling card | [REDACTED] call | None |
| | 0- bill to third | | [REDACTED] call | None | |
| | 0- collect | | [REDACTED] r call | None | |
| | 0+ calling card | | [REDACTED] call | None | |
| | 0+ bill to third | | [REDACTED] call | None | |
| | 0+ collect | | [REDACTED] r call | None | |
| | | | | Per call rate based on [REDACTED] expense per work minute | None |
| | Dialing instructions | | | | |
| | Route 0- to live operator | | | None | None |
| | | | Per call rate based on [REDACTED] expense per work minute | None | |
| Time & Charges | | | | | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------------|------------------------------------|---|---|------|
| | | | Recurring | NRC |
| Local Operator Services (Cont'd) | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Busy Line Verification | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Emergency Interrupt | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Emergency Call Trace | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Operator Transport | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of \$0.002 per call. | |
| Local Directory Assistance | Directory assistance | | [REDACTED] | None |
| | Directory Transport | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of [REDACTED] call. | |
| | | | None | |
| | DA Interconnection | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | DA Database Service | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Direct Access to DA | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | DA Call Completion | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Call Completion Termination Charge | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Intercept | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Common Transport | | An interoffice transmission path between LEC network elements. Includes multiplexing, grooming, cross-office wiring to DSX or LGX. Includes DS1, DS3, various SONET level term options, two way or one way option | [REDACTED] ni., per local minute [REDACTED] mm., per local minute | None |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

Attachment B

| Item | Type | Explanation | AT&T Price Proposal | |
|---------------------|----------------------------|--|--|--|
| | | | Recurring | NRC |
| Dedicated Transport | | | 2-Wire Loc Chan: [redacted] mo. 4-Wire Local Chan: [redacted] or mo. IO Channel: [redacted] or mile [redacted] or fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan: [redacted] first [redacted] Add'l 4-W Loc Chan: [redacted] First [redacted] Add'l [redacted] First [redacted] Add'l |
| | Voice Grade | An interoffice transmission path between AT&T designated locations. | | |
| | | | 2-Wire Loc Chan: [redacted] or mo. 4-Wire Local Chan: [redacted] or mo. IO Channel: [redacted] or mile [redacted] or fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan: [redacted] first [redacted] Add'l 4-W Loc Chan: [redacted] First [redacted] Add'l [redacted] First [redacted] Add'l |
| | DS0 | An interoffice transmission path between AT&T designated locations. | | |
| | | | Local Channel: [redacted] mo. IO Channel: [redacted] or mile [redacted] or fac term. Loc Chan not applicable when terminated in BellSouth office | Local Chan: [redacted] First [redacted] Add'l IOC: [redacted] Each |
| | DS1 | An interoffice transmission path between AT&T designated locations. | | |
| | | | Local Channel: [redacted] mo. IO Channel: [redacted] mile [redacted] or fac term. Loc Chan not applicable when terminated in BellSouth office | Local Channel: [redacted] IOC: [redacted] |
| | DS3 | An interoffice transmission path between AT&T designated locations. | | |
| | STS-1 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | Capacity on shared circuit | Includes multiplexing and grooming functionality, and redundant equip and facilities to support protection and restoration | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

Attachment B

| Item | Type | Explanation | AT&T Price Proposal | |
|---------------------------------------|-----------------------------|--|---|---|
| | | | Recurring | NRC |
| Dedicated Transport, Cont'd. | System dedicated to AT&T | Includes transmission equipment, facilities, and redundant equip and facilities to support protection and restoration | See SONET Rings | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | | | SONET line switched rings, OC48 | |
| | | SONET path switched rings, OC 3, OC 12 | | |
| Digital Cross Connect System (DCS) | | Auto x-connect, grooming, pt to multi-pt, auto test, broadcast capabilities. Include x- conn to DSX or LGX. AT&T has real time access, real time configuration capabilities | | |
| | DCS1/0 | Per System | | |
| | DCS3/1 | 28 DS1 Channel System | | |
| | | Per DS1 | | |
| | DCS3/3 | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data |
| | STS-1 X-conn | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| Tandem Switching | | | \$ | None |
| Unbundled Element Features | Various | Features, functions, capabilities not specifically listed in this proposal | BellSouth will provide upon request at direct economic cost. | |
| | | | | |

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------|---------------------------------|--|---|------------------------|
| | | | Recurring | NRC |
| Data Switching | Circuit Switched Data Switching | Data switching functionality required to switch between industry standard ISDN interfaces. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | ISDN Packet Switching | Data switching functionality required to switch between industry standard ISDN interfaces. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | Frame Relay | Switching functionality required to connect facilities from the Frame Relay User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | ATM | Switching functionality required to connect facilities from the ATM User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| STPs | ISUP Msg. | | All States: [REDACTED] | None |
| | TCAP Msg. | | All States: [REDACTED] | None |
| | Usage Surrogate | Where measurement not available | All States: [REDACTED] 50kops facility | None |
| | Signaling Link Transport | | All States: [REDACTED] | All States: [REDACTED] |
| | A or D link facility | 56kbps | [REDACTED] | [REDACTED] |
| | Signaling facility termination | 56kbps | All States: [REDACTED] | None |
| | Signaling facility termination | DS1 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|------------------|---------------------------------------|---|---|-----|
| | | | Recurring | NRC |
| SCPs/ Data Bases | | | | |
| | Line Info Database (LIDB) | Storage Agreement | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | | Use of ALEC LIDB data | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | | Validation | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Toll Free Number Portability Database | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | ALI/DMS Database | | AT&T may access 911 Tandem using local transport facilities contained in this proposal. | |
| | | Contains information regarding routing of calls to public safety answering points | | |
| | SCE/SMS/ AIN Access | Ability to create service applications in the BST SCE and deploy those applications to the BST SCP | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | | Ability to create service applications in the AT&T SCE and deploy those applications via the AT&T SCP to BST SSPs | Proposed price(s) will be provided following receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|--------------|--|---|-----|
| | | | Recurring | NRC |
| Interim Number Portability | | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | SPNP- Remote | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | SPNP- DID | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| Directory Listings | | | See interconnection proposal. In addition, charges for additional and optional listings shall be subject to reductions for sales commissions paid AT&T. | |
| CMDS- Hosting | | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Non-Sent Paid Report System | | Mechanized report system providing companies within BellSouth region info regarding Non-Sent Paid message and revenue distribution | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Poles, Ducts, Conduits and Rights of Way | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Virtual Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Physical Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Lease of unused transmission media | | Interoffice transmission media which has no lightwave or electronic transmission equipment terminated to operationalize its transmission capabilities. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Local Calling Area Boundary Guide | | | BellSouth proposal to provide at no charge accepted. | |

201034

Attachment 6

1 PROPOSED RECOVERY OF COSTS INCURRED BY BELLSOUTH
2 TO PROVIDE ELECTRONIC INTERFACES

3 Below are the prioritized options for cost recovery of the
4 one time, up front net costs BellSouth will incur to
5 implement the electronic interfaces requested by AT&T, as
6 agreed to by the joint AT&T/BellSouth Negotiating Core Team
7 on June 19, 1996.

8 [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]

17 2. [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]

24 3. [REDACTED]
25 [REDACTED]
26 [REDACTED]
27 [REDACTED]
28 [REDACTED]
29 [REDACTED]
30 [REDACTED]
31 [REDACTED]
32 [REDACTED]

33 4. [REDACTED]
34 [REDACTED]
35 [REDACTED]
36 [REDACTED]
37 [REDACTED]

390560

TOTAL SERVICES RESALE IMPLEMENTATION TIMELINE

1

2 PHASE
 3 PHASE NAME
 4
 5 INTERVALS
 6 VOLUME OF ACCOUNTS
 7
 8
 9
 10 AT&T REQUIRED
 11 TIMELINE
 12 BEST CASE TIMELINE
 13 WORST CASE TIMELINE

| PHASE 0 | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 |
|---|--|--------------------------------|---------------------------------|-----------------------------|
| OBTAINING AGREEMENT IN PRINCIPLE | DEVELOPMENT AND OPERATIONAL TRIAL | SERVICE READINESS TRIAL | SERVICE DELIVERY RAMP UP | GENERAL AVAILABILITY |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

100051

AT&T PROPRIETARY AND CONFIDENTIAL
 SUBJECT TO THE 4/2/96 CONFIDENTIALITY AGREEMENT BETWEEN AT&T AND BELLSOUTH

APRIL 10, 1996
 JMB

Unbundled Network Function Combinations

1

2

3

4 Loop Distribution

5 Loop Concentrator

6 Loop Feeder

7 Local Switching

8 Common Transport

9 Dedicated Transport

10 Tandem Switching

11 Signal Transfer Port

12 Signaling Link

13 SCPs/Databases

14 Operator Systems

15 * - NID Only

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AT&T PROPRIETARY

DRAFT

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Unbundled Network Function Combinations
Service Now

1
2
3
4
5
6 B
7 S
8 T
9
10 P
11 L
12 A
13 T
14 F
15 O
16 R
17
18 M

1 2 3 5 6 7 8 12

Loop

Switching

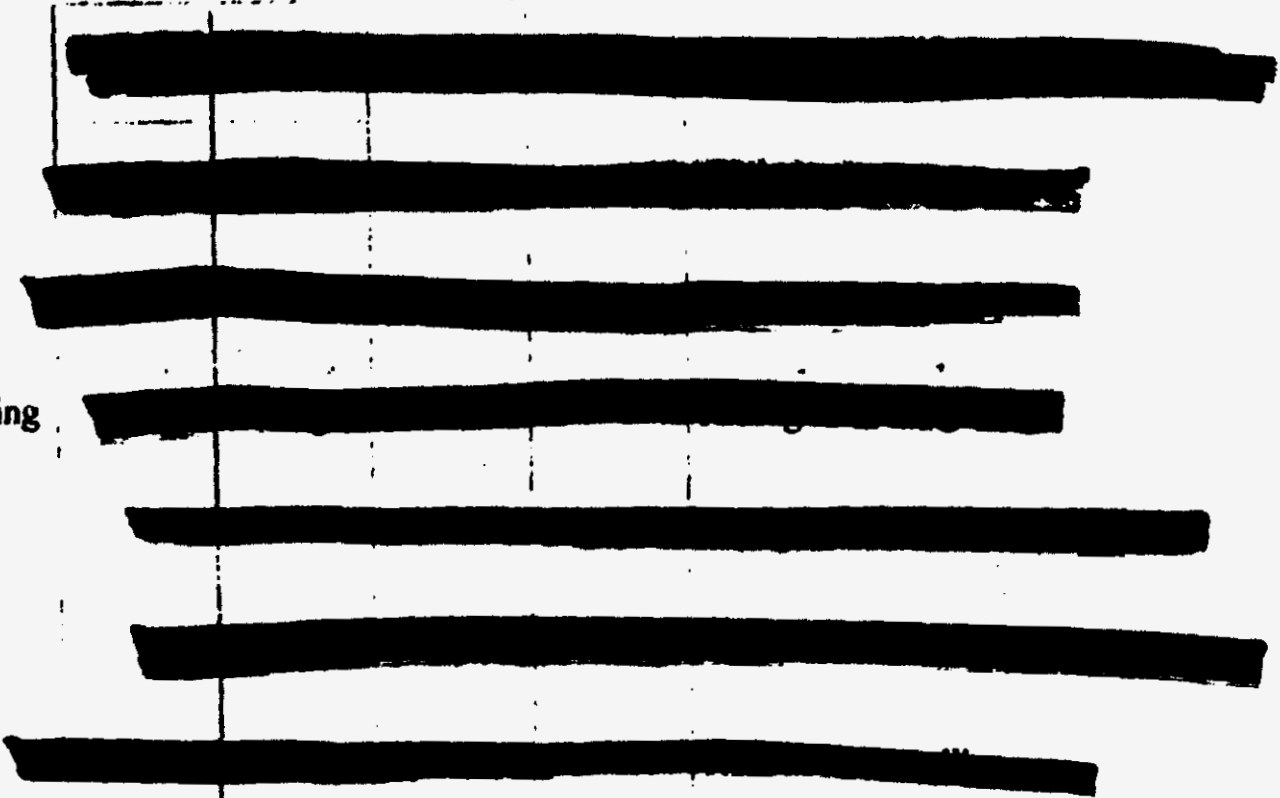
Transport

SS7 Signaling

OPR/DA

Databases

AIN



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DRAFT

DRAFT

1
2
3
4
5
6 B
7 S
8 T
9
10
11 P
12 L
13 A
14 T
15 F
16 O
17 R
18 M
19

Unbundled Network Function Combinations Service Later

4 9 10 11

Loop

Switching

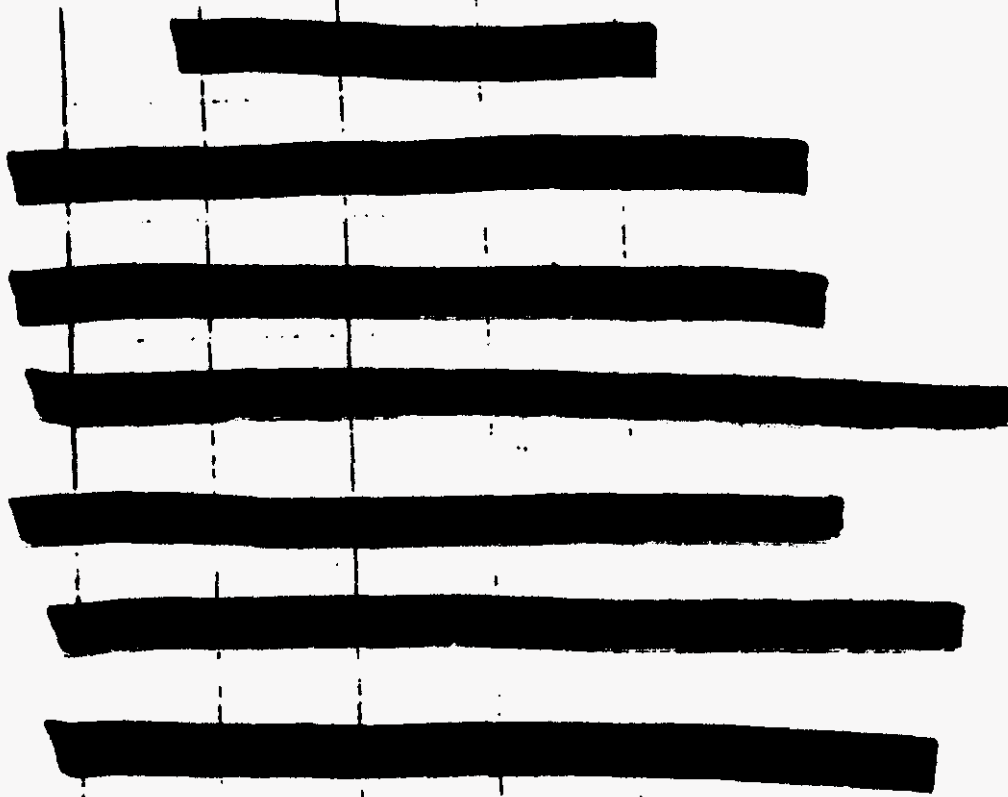
Transport

SS7 Signaling

OPR/DA

Databases

AIN



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1

Unbundled Network Function Combinations

2

| 3 | Combination | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 12 | 4 | 9 | 10 | 11 |
|----|-----------------------|------------|---|---|---|---|---|---|----|---|---|----|----|
| 4 | Service Date ** | [REDACTED] | | | | | | | | | | | |
| 5 | Loop Distribution | [REDACTED] | | | | | | | | | | | |
| 6 | Loop Concentrator | [REDACTED] | | | | | | | | | | | |
| 7 | Loop Feeder | [REDACTED] | | | | | | | | | | | |
| 8 | Local Switching | [REDACTED] | | | | | | | | | | | |
| 9 | Common Transport | [REDACTED] | | | | | | | | | | | |
| 10 | Dedicated Transport | [REDACTED] | | | | | | | | | | | |
| 11 | Tandem Switching | [REDACTED] | | | | | | | | | | | |
| 12 | Signal Transfer Point | [REDACTED] | | | | | | | | | | | |
| 13 | Signaling Link | [REDACTED] | | | | | | | | | | | |
| 14 | SCPs/Databases | [REDACTED] | | | | | | | | | | | |
| 15 | Operator Systems | [REDACTED] | | | | | | | | | | | |

16 * = NID Only

17 ** = Subject to Agreement on Gateway Interface

unclm: dlc
 01/20/90

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Unbundled Network Function Combinations



1
2
3

4

Combination

| | | | | | | | |
|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 5 | 6 | 7 | 8 | 12 |
|---|---|---|---|---|---|---|----|

5 B
6 S
7 T
8 P
9 L
10 A
11 T
12 F
13 O
14 R
15 M

Loop



Switching



Transport



SS7 Signaling



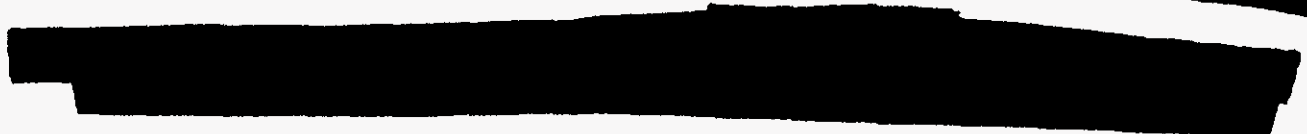
OPR/DA



Databases



AIN



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Unbundled Network Function Combinations



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4
5 B
6 S
7 T
8
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10 P
11 L
12 A
13 T
14 F
15 O
16 R
17 M

| Combination | 4 | 9 | 10 | 11 |
|---------------|------------|------------|------------|------------|
| Loop | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Transport | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SS& Signaling | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| OPR/DA | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Databases | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| AIN | [Redacted] | [Redacted] | [Redacted] | [Redacted] |

200207

PART IV PRICING¹:

1

2

34. General Principles

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All services currently provided hereunder (including resold Local Services), Network Elements and Combinations and all new and additional services or Network Elements to be provided hereunder, shall be priced in accordance with all applicable provisions of the Act and the rules and orders of the Federal Communications Commission and any state public utility commission having jurisdiction over this Agreement.

9

34.1 Most Favored Customer

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11

35. Pursuant to Section 5 of this Agreement, BellSouth will treat AT&T as a Most Favored Customer.

12

36. Price Schedules

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36.1 Local Service Resale

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The rates that AT&T shall pay to BellSouth for Local Services resale shall be BellSouth's Retail Rates less the Total Applicable Discount. If BellSouth reduces its Retail Rates after AT&T executes this Agreement, the Total Applicable Discount shall be applied to the reduced Retail Rates.

18

36.1.1 Total Applicable Discount

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21

The Total Applicable Discount is the sum of three separate discounts: (i) the Region-wide Base Line discount; (ii) the Operational Parity Discount; and (iii) the Volume Discount.

22

36.1.1.1 Region-Wide Base Line

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¹ THIS PART IV CONTAINS AT&T PROPRIETARY AND COMMERCIALY SENSITIVE INFORMATION WHICH MAY BE DISCLOSED BY BELL SOUTH ONLY TO EMPLOYEES OR REPRESENTATIVES OF BELL SOUTH WITH A "NEED TO KNOW" PURSUANT TO THE BELL SOUTH/AT&T CONFIDENTIALITY AGREEMENT ENTERED INTO FOR PURPOSES OF NEGOTIATIONS UNDER THE TELECOMMUNICATIONS ACT OF 1996. DISCLOSURE TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF AT&T IS PROHIBITED.

200011

1 The Region-Wide Base Line discount [REDACTED]
 2 and applies to any and all Telecommunication Services available for Resale
 3 as described in Part II of this agreement.

4 **36.1.1.2 Operational Parity Discount**

5 **36.1.1.3** BellSouth shall provide the electronic interfaces required under this
 6 Agreement to enable AT&T to achieve operational parity with BellSouth by
 7 December 31, 1996. If the respective electronic interfaces are not fully
 8 operational by the dates specified in this Agreement then each of the
 9 specified elements of the Operational Parity discount shall become effective
 10 immediately at such specified dates and shall apply to all Telecommunication
 11 Services until the respective electronic interfaces are fully operational for
 12 ninety (90) consecutive days. BellSouth and AT&T shall agree on
 13 performance metrics that BellSouth must meet to be considered "fully
 14 operational."

| 15 | <u>Interface Elements</u> | <u>Operational Parity Discount</u> |
|----------|---|------------------------------------|
| 16 | Pre-Service Ordering Interfaces | [REDACTED] |
| 17 18 | Service Order Processing & Provisioning Interfaces | [REDACTED] |
| 19 20 | Directory Listing and Line Information Database | [REDACTED] |
| 21 | Service Trouble Reporting Interfaces | [REDACTED] |
| 22 | Daily Local Usage Data | [REDACTED] |

23 **36.1.1.3.1 Non-Recurring Charges for OUTPLOC**

24 BellSouth will charge [REDACTED]
 25 until electronic interfaces are fully operational, at which time BellSouth will
 26 charge the same rate as it charges for PIC changes.

27 **36.1.1.4 Volume Discount**

28 AT&T agrees to purchase from BellSouth the number of lines (basic 200012
 29 residence lines plus business lines) specified below between the

1 effective dates specified below and December 31, 1999. If AT&T meets
 2 its volume commitment levels before the specified effective dates, the
 3 discount rate corresponding to higher volume commitment level shall
 4 apply immediately to all Telecommunication Services.

| 5 | <u>Effective Date</u> | <u>Lines (Millions)</u> | <u>Volume Discount</u> |
|----|-----------------------|-------------------------|------------------------|
| 6 | 4/1/97 | [REDACTED] | [REDACTED] |
| 7 | 7/1/97 | [REDACTED] | [REDACTED] |
| 8 | 10/1/97 | [REDACTED] | [REDACTED] |
| 9 | 1/1/98 | [REDACTED] | [REDACTED] |
| 10 | 4/1/98 | [REDACTED] | [REDACTED] |
| 11 | 7/1/98 | [REDACTED] | [REDACTED] |
| 12 | 10/1/98 | [REDACTED] | [REDACTED] |
| 13 | 1/1/99 | [REDACTED] | [REDACTED] |

14
15
16

[REDACTED]

17 **36.1.2 Physical Arrangements**

18 BellSouth will make interconnection arrangements available at all
 19 tandem switching and end office switching locations.

20 At the discretion of AT&T, local interconnection may be accomplished via one-
 21 way local trunks, or two way local trunks, or AT&T may choose to deliver both
 22 Local Traffic and toll traffic over the same trunk group(s). With respect to the
 23 latter scenario, AT&T will have to provide an Percent Local Usage (PLU) to
 24 facilitate billing if it desires application of the local interconnection rate.

25 **36.1.3 Compensation for the exchange of Local Traffic shall be accomplished initially**
 26 **on a "bill and keep" basis. After twelve months of performance under this**
 27 **Agreement, either BellSouth or AT&T may demand that compensation due**
 28 **both parties for the exchange of Local Traffic be set at an amount equal to the**
 29 **TSLRIC incurred by BellSouth to provide interconnection service on a per-**
 30 **minute-of-use basis. For the first twelve months of TSLRIC compensation,**
 31 **each party's payments will be limited to one hundred five (105) percent of the**
 32 **calculated reciprocal payment on a monthly billing basis. In no event shall**
 33 **TSLRIC exceed \$0.001 per-minute-of-use during the term of this Agreement.**

34 **36.1.4 AT&T shall pay BellSouth the TSLRIC associated with the tandem switching**
 35 **function where local calls originated by an AT&T customer traverses a**
 36 **BellSouth tandem switch to be completed to another ALEC. In no event shall** 300013

1 the TSLRIC exceed [REDACTED] per-minute-of-use during the term of the
2 Agreement.

3 36.1.5 Compensation for the termination of toll traffic and the origination of 800 traffic
4 between the interconnecting parties shall equal the applicable interexchange
5 access charges.

6 36.1.6 Standard meet point billing arrangements shall apply when the completion of
7 a toll call involves both BellSouth and AT&T facilities.

8 36.1.7 In the event a toll call is completed through an interim service provider's
9 number portability arrangement (e.g., remote call forwarding, flexible DID,
10 etc.) to a Customer of the new Carrier of Record, the new Carrier of Record is
11 entitled to applicable end office terminating switched access charges (e.g.,
12 local switching, line termination, carrier common line, residential
13 interconnection charge, etc.) The company forwarding the call will be
14 considered to be adequately compensated through the charges it receives for
15 porting the number.

16 36.2 Unbundled Network Elements/Ancillary Function

17 The charges that AT&T shall pay to BellSouth for Unbundled Network
18 elements are set forth in Table 1.

19 36.3 Directory Listing

20 BellSouth will not charge AT&T or its customers for (i) basic white page
21 listings for residential customers; (ii) basic yellow page and business white
22 page listings (as available to BellSouth customers) for business customers; or
23 (iii) distribution of white and yellow page directories. BellSouth shall offer for
24 resale enhanced directory listings at Retail Rates, less the Total applicable
25 Discount, and pursuant to the terms and conditions offered to BellSouth
26 customers.

27 36.3.1 AT&T is responsible for providing BellSouth with accurate directory
28 information in an established format and in a timely manner.

200014

**AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS**

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | | | |
|--|--|---|---|--|--|------------|
| | | | Recurring | NRC | | |
| 3 4 5 6 7 8 9 10 11 12 13 14 15 | Network Interface Device | Twisted Pair Smart-Jack Fiber Coax | For 2 or 4-wire termination | T1 Line | None Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T. BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T. | All States |
| 16 17 18 19 20 | Distribution Media (Loop Distribution) | Various capabilities, incl. twisted pair, DS1, DS3, Optical SCNET, OCn, Analog Radio Freq., Broadband | | AT&T and BellSouth agree to work together to expeditiously resolve issues regarding the provision of this unbundled element, and to reach a resolution satisfactory to both parties. | | |
| 21 22 23 24 25 | Loop Concentrator/Multiplexer | Virtual remote terminal @ DS0 and DS1 levels, DLC system offering | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. | | |
| 26 27 28 29 | Loop Feeder | Various options, including twisted pair, DS1, Fiber OCn | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. | | |
| 30 31 32 33 34 35 36 37 38 39 40 41 | Loop Combination | 2W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data, etc. | <p>Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options.</p> <p>No SCC billing by BellSouth to AT&T or its customers</p> | | |

This proposal is contingent upon reaching agreement with respect to Local Services Resale (LSR) and Interconnection.

200015

AT&T PRICE PROPOSAL TO BELL SOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|------------------------------|---|--|--|
| | | | Recurring | NRC |
| Loop Combination Cont'd | | | | |
| | 4W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data etc | No recurring by BellSouth to AT&T or its customers | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options |
| | DS1 | Terminated on DSX-1 | All states per month | See comment under 4W NRC. |
| | DS3 | Fiber Optic cable | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | Optical SONET OCn | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | SONET ring, terminated in CO | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | SONET ring between customers | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | IOC Mileage | LEC office to ALEC office | | Dedicated local transport charges apply. |
| | Channelization | Converts up to 96 VG loops to DS1 level for connection with ALEC POI. Concentrated or non-concentrated @ option of customer | Monthly per system plus per circuit. | first system and for each additional system, plus per circuit. |

200016

AT&T PRICE PROPOSAL TO BELLSOUTH
 UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|------|-------------------------------|-------------|--|-----|
| | | | Recurring | NRC |
| | Distance sensitive loop rates | | To the extent BellSouth offers rates to retail customers reflecting distance sensitive loop charges it shall provide loops to AT&T at equivalent charges. This provision applies to both implicit and explicit deaveraged pricing. | |

200017

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 4

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|---------------------------------------|--|--|---|
| | | | Recurring | NRC |
| Loop Combination and Sub-Loop Elements | Loop cost variance by geographic area | Wire center, census group, etc. | Proposed loop prices are composite state averages. BellSouth will perform cost studies to determine geographic cost differences and implement prices that reflect those differences. | |
| Local Switching | Features | Route operator and directory assistance traffic to customer's preferred carrier | None | None |
| | | Route local, intraLATA, interLATA, international traffic to customer's preferred carrier | None | None |
| | | Translations to direct AIN queries to AT&T SS7 network, to receive responses, and to continue call handling in accordance with responses | None | None |
| | Line Interface | Residence Service. Standard tip & rng. Includes loop start, ground start, on-hook | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | Business Service. Standard tip & rng. Includes loopstart, groundstart, on-hook | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | Coin. Includes public, semi-pub, COCOT, and options | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |

200018

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|-----------------------|---|--|---|
| | | | Recurring | NRC |
| Local Switching. Cont'd | Line Interface Cont'd | | All States [REDACTED] per month | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options |
| | | 2W ISDN | | |
| | | | All States: [REDACTED] per month per line interface | See Note for 2W ISDN |
| | | DS1 ISDN | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. |
| | | TR 06- Dig Loop Cxr | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. |
| | | TR 303- Dig Loop Cxr | | |
| | | | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | 2-Wire/ 4-Wire analog interface to PBX | | |
| | | | All States: [REDACTED] per month | See Note for 2W ISDN |
| | | DS1 interface to PBX or CPE | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/or receipt of BellSouth cost data. |
| | | Switched Fractional DS1 with capabilities to configure Nx64 channels, n <25 | | |
| | | | All States: [REDACTED] per month per equipped line | None |
| | | Direct in Dial | | |

200019

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|--|---|--|---|
| | | | Recurring | NRC |
| Local Switching. Cont'd | | | All States [redacted] month per equipped line | None |
| | Rotary | | | |
| | End office switching functions, including intraoffice, interoffice, toll, access, and local | | All States: Originating, first minute [redacted] Originating, add'l minute [redacted] Terminating, per minute [redacted] | None |
| | | Originating and Terminating switching | | |
| | | | | |
| | BellSouth proposed universal local call termination option. Includes local switching, common transport, signaling, and far end local switching to terminate local calls. | Originating and Terminating switching plus local trpt. Includes intraoffice. Also includes calling to expanded local and toll substitute plan areas. | All States: Originating, first minute [redacted] Originating, add'l minute [redacted] Terminating, per minute: [redacted] Includes access traffic and calling to and from all points in expanded and toll substitute areas | None |
| | Features | | | All States: [redacted] feature activated after initial service installation. |
| | | Residential Features | | |
| | | | | All States: [redacted] feature activated after initial service installation. |
| | | CLASS features | | |

200020

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE

| Item | Type | Explanation | AT&T Price Proposal | |
|--------------------------|-----------------------------|---|---------------------------------------|--|
| | | | Recurring | NRC |
| Local Switching (Cont'd) | Features (Cont'd) | | None | All States [redacted] er feature activated after initial service installation |
| | | Business/ Centrex Features | | |
| | | | None | All States [redacted] er feature activated after initial service installation |
| | | AIN Features | | |
| | Trunk Terminations | | None | None |
| | | CAMA ANI | | |
| | | | None | None |
| | | FG8 | | |
| | | | None | None |
| | | FGD/ IEC Operator | | |
| | | | None | None |
| | | DS 3 | | |
| | | None | None | |
| | | 64 kbps clear channel | | |
| | | None | None | |
| | | Switched digital- 56 & 64 kb/s | | |
| | | | Included in individual element rates. | |
| | Loop/ Switch cross-connect | Connection of unbundled switch and collocated loop elements. | | |
| | | | Included in individual element rates. | |
| | Switch/ Trunk Cross-connect | Connection of unbundled switch and collocated transport elements. | | |

200021

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|-------------------------|---------------------------|-------------------------|---|---------------------|
| | | | Recurring | NRC |
| Local Operator Services | 0+ Calling Card | 0+ calling card | [REDACTED] per call | None |
| | | automated calling card | 5 [REDACTED] per call | None |
| | Station | 0- calling card | [REDACTED] per call | None |
| | | 0- bill to third | [REDACTED] per call | None |
| | | 0- collect | [REDACTED] per call | None |
| | | 0- no attempt | [REDACTED] per call | None |
| | | 0+ bill to third | [REDACTED] per call | None |
| | | Automated bill to third | [REDACTED] per call | None |
| | | 0+ collect | [REDACTED] per call | None |
| | | automated collect | [REDACTED] per call | None |
| | | sent paid | [REDACTED] per call | None |
| | | Person | 0- calling card | [REDACTED] per call |
| | 0- bill to third | | [REDACTED] per call | None |
| | 0- collect | | [REDACTED] per call | None |
| | 0+ calling card | | [REDACTED] per call | None |
| | 0+ bill to third | | [REDACTED] per call | None |
| | 0+ collect | | [REDACTED] per call | None |
| | Dialing instructions | | Per call rate based on [REDACTED] expense per work minute | None |
| | Route 0- to live operator | | None | None |
| | Time & Charges | | Per call rate based on [REDACTED] expense per work minute | None |

200022

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------------|------------------------------------|---|--|------|
| | | | Recurring | NRC |
| Local Operator Services (Cont'd) | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Busy Line Verification | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Emergency Interrupt | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Emergency Call Trace | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| | Operator Transport | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of [redacted] per call. | |
| Local Directory Assistance | | | [redacted] per call | None |
| | Directory assistance | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of [redacted] per call. | |
| | Directory Transport | | None | |
| | DA Interconnection | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | DA Database Service | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Direct Access to DA | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | DA Call Completion | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Call Completion Termination Charge | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Intercept | | Proposed price(s) will be provided following receipt and review of BellSouth cost data | |
| Common Transport | | | [redacted] per mi., per local minute | None |
| | | An interoffice transmission path between LEC network elements. Includes multiplexing, grooming, cross-office wiring to DSX or LGX. Includes DS1, DS3, various SONET level term options, two way or one way option | [redacted] c. term., per local minute | |

200023

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | |
|------|---------------------|---|---|--|
| | | | Recurring | NRC |
| 3 | Dedicated Transport | | 2-Wire Loc Chan [redacted] per mo 4-Wire Local Chan [redacted] per mo IO Channel: [redacted] per mile [redacted] per fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan [redacted] first [redacted] Add'l 4-W Loc Chan [redacted] First [redacted] Add'l IOC [redacted] First [redacted] Add'l |
| 14 | Voice Grade | An interoffice transmission path between AT&T designated locations | | |
| 16 | | | 2-Wire Loc Chan [redacted] per mo 4-Wire Local Chan: [redacted] per mo IO Channel: [redacted] per mile [redacted] per fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan [redacted] first [redacted] Add'l 4-W Loc Chan [redacted] First [redacted] Add'l IOC: [redacted] First [redacted] Add'l |
| 25 | DS0 | An interoffice transmission path between AT&T designated locations. | | |
| 28 | | | Local Channel: [redacted] per mo. IO Channel: [redacted] per mile [redacted] per fac term. Loc Chan not applicable when terminated in BellSouth office | Local Chan: [redacted] first [redacted] Add'l IOC: [redacted] Each |
| 35 | DS1 | An interoffice transmission path between AT&T designated locations. | | |
| 37 | | | Local Channel: [redacted] per mo. IO Channel: [redacted] per mile [redacted] per fac term. Loc Chan not applicable when terminated in BellSouth office | Local Channel: [redacted] IOC: [redacted] Each |
| 45 | DS3 | An interoffice transmission path between AT&T designated locations. | | |
| 47 | STS-1 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

200024

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|------------------------------------|----------------------------|--|---|------------------------|
| | | | Recurring | NRC |
| | Capacity on shared circuit | Includes multiplexing and grooming functionality and redundant equip and facilities to support protection and restoration | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data | |
| Dedicated Transport. Cont'd. | System dedicated to AT&T | Includes transmission equipment, facilities, and redundant equip and facilities to support protection and restoration | See SONET Rings | |
| | | SONET line switched rings, OC48 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data | |
| | | SONET path switched rings, OC 3 OC 12 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Digital Cross Connect System (DCS) | | Auto x-connect, grooming, pt to multi-pt, auto test, broadcast capabilities. Include x-conn to DSX or LGX. AT&T has real time access, real time configuration capabilities | | |
| | DCS1/0 | Per System | ██████████ per month | ██████████ first Add'l |
| | DCS3/1 | 28 DS1 Channel System | ██████████ per month | ██████████ first Add'l |
| | | Per DS1 | ██████████ per month | ██████████ first Add'l |
| | DCS3/3 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | STS-1 X-conn | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Tandem Switching | | | ██████████ per minute | None |
| Unbundled Element Features | Various | Features, functions, capabilities not specifically listed in this proposal | BellSouth will provide upon request at direct economic cost. | |

200025

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|--------------------------|---------------------------------|--|---|---|
| | | | Recurring | NRC |
| Data Switching | Circuit Switched Data Switching | Data switching functionality required to switch between industry standard ISDN interfaces | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data | |
| | ISDN Packet Switching | Data switching functionality required to switch between industry standard ISDN interfaces | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data | |
| | Frame Relay | Switching functionality required to connect facilities from the Frame Relay User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data | |
| | ATM | Switching functionality required to connect facilities from the ATM User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| STPs | ISUP Msg. | | All States: ██████████ per msg. | None |
| | TCAP Msg. | | All States: ██████████ per msg. | None |
| | Usage Surrogate | Where measurement not available | All States: ██████████ per month per 56kbps facility | None |
| Signaling Link Transport | A or D link facility | 56kbps | All States: ██████████ per month | All States: ██████████ first ██████████ Add'l |
| | Signaling facility termination | 56kbps | All States: ██████████ per month | None |
| | Signaling facility termination | DS1 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

200026

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| Item | Type | Explanation | AT&T Price Proposal | | |
|----------------------|------------------|-------------|---|---|---|
| | | | Recurring | NRC | |
| 1 2 3 | SCPs/ Data Bases | | AT&T will respond to BellSouth proposal on or before July 3, 1996 | | |
| 4 5 | | | Line Info Database (LIDB) | Storage Agreement | AT&T will respond to BellSouth proposal on or before July 3, 1996 |
| 6 7 | | | | Use of ALEC LIDB data | AT&T will respond to BellSouth proposal on or before July 3, 1996 |
| 8 9 | | | | Validation | AT&T will respond to BellSouth proposal on or before July 3, 1996. |
| 10 11 12 | | | Toll Free Number Portability Database | | AT&T will respond to BellSouth proposal on or before July 3, 1996. |
| 13 14 15 | | | | | AT&T may access 911 Tandem using local transport facilities contained in this proposal. |
| 16 17 | | | ALI/DMS Database | Contains information regarding routing of calls to public safety answering points | Proposed price(s) will be provided following receipt of BellSouth cost data. |
| 18 19 | | | | | Proposed price(s) will be provided following receipt of BellSouth cost data. |
| 20 21 | | | SCE/SMS/ AIN Access | Ability to create service applications in the BST SCE and deploy those applications to the BST SCP | Proposed price(s) will be provided following receipt of BellSouth cost data. |
| 22 23 24 25 | | | | Ability to create service applications in the AT&T SCE and deploy those applications via the AT&T SCP to BST SSPs | Proposed price(s) will be provided following receipt of BellSouth cost data. |
| 26 27 28 29 | | | | | |

200027

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|-----------------------------------|--|--|-----|
| | | | Recurring | NRC |
| Interim Number Portability | | | Proposed price(s) will be provided following receipt of BellSouth cost data | |
| | SPNP- Remote | | Proposed price(s) will be provided following receipt of BellSouth cost data | |
| | SPNP-Directory Number-Route Index | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | SPNP-LERG Reassignment | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| Directory Listings | | | See interconnection proposal. In addition, charges for additional and optional listings shall be subject to reductions for sales commissions paid AT&T | |
| CMDS- Hosting | | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Non-Sent Paid Report System | | Mechanized report system providing companies within BellSouth region info regarding Non-Sent Paid message and revenue distribution | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Poles, Ducts, Conduits and Rights of Way | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Virtual Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Physical Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Lease of unused transmission media | | Interoffice transmission media which has no lightwave or electronic transmission equipment terminated to operationalize its transmission capabilities. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

200028

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

TABLE 1

| | Item | Type | Explanation | AT&T Price Proposal | |
|---|----------------------------|------|-------------|---|----------------|
| | | | | Recurring | NRC |
| 1 | | | | | |
| 2 | Local Calling Area | | | | |
| 3 | Boundary Guide | | | BellSouth proposal to provide at no charge accepted | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | Recorded Usage Data Charge | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | Not Applicable |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |

Conrad *Jan*
10/13/95

1 October 13, 1995

2 P. Nelson

3 Pam:

4 During our meeting last Friday, I took the action item of researching BCS' s
5 bill interface requirements. I have attached the Billing section of two BCS
6 documents that cover this area:

7 1.) The Local Service Marketing Service Description produced 5/6/95
8 and

9 2.) The Nationwide ETE Marketing Services Description produced
10 8/7/95.

11 I believe they address the BCS view of bill interface requirements.

Donna

12 Donna Hassebrock

13 cc: Michelle Augier
14 Bob Cavallo
15 Mario Martinez

200180

NATIONWIDE ETE



END - TO - END
NATIONWIDE
MARKETING SERVICES DESCRIPTION

DRAFT

ETE MSD TEAM:

R. Hurwitz
J. D'Angelo
A. Cohen
S. Murphy
D. Stock
B. Ragette

August 7, 1995
Version 2.0

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NATIONWIDE ETE



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NATIONWIDE ETE



Regulated and non-regulated credits need to be tracked separately. Inquiry centers are also to report on types of problems referred by customers and AEs.

[Redacted content]

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| [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |

[Redacted content]



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2 **9.1 Features/Options To Support (January '96):**

3 Billing needs to support all of the local elements of the end-to-end offer as defined in Appendix B,
4 in addition to any geographic deviations as described in the individual geographical specific MSD
5 addendums. The biller is required to be prepared to allow for the following types of charges:

- 6 ● Non-Recurring
- 7 ● Monthly Recurring
- 8 ● Usage Sensitive
- 9 ● Promotional Discounts and/or waiver of charges

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[REDACTED]

Monthly Charges / Mid-Cycle Service Changes:

Monthly Charges: For local service, we will be billing customers in advance for their calling plan and feature charges. Thus, the first customer bill will contain prorated service and feature charges in "arrears" plus the next months service and feature charges.

Service Changes: Customers who choose to change calling plans in the middle of their billing cycle should receive a bill with prorated charges covering each period.

Bill Periods:

Local and Long Distance charges will be integrated into one bill for remittance. Timely mailing of the bill is critical in order to make the transition to a single vendor seamless. The number of billing periods should correspond to the number available with the long distance portion of the service today. Local recurring charges should not be billed in arrears.

[REDACTED]

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NATIONWIDE ETE



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10 **9.5 Bill Format**
11 **TO BE PROVIDED**

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[REDACTED]

18 **9.7 Bill Payment (January '96):**

19 In many areas, PUCs' rules and regulations will provide guidelines on bill payments. In general,
20 a customer's payment to AT&T shall first be applied to their local service charges, next to the
21 Long Distance portion of their bill, lastly to any "pay per use" services (976) as regulated by the
22 FCC and state. Any partial payments must first be used to cover the local service charges. Any
23 deviations to this plan will be outlined in the geographical specific MSD addendums.

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[REDACTED] This policy is dependent on legal and regulatory requirements and may
therefore, differ by geographic area. Specific policies will be outlined in the geographical
specific MSD addendums.

31 In general, any customer applying for service, whose financial viability is not established to our
32 satisfaction may be required to pay in advance of the service connection and installation charges
33 and least one month's service charge.

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NATIONWIDE ETE



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| [REDACTED] | [REDACTED] |
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**Service Termination:**

AT&T local service may be disconnected only for nonpayment of AT&T local service charges, or as specified in local regulations with regard to LifeLine services. Thus, if a customer with this service is in treatment for charges associated with Long Distance, the collections activities associated with those charges cannot be used to impact the local service. There are several other valid reasons for termination of service including, Fraud, Improper Use, and/or Illegal Use of Service.

There will be a restoral charge applied when service is reconnected.

Cancellation for Cause:

For the causes listed below and without incurring any liability, we reserve the right to either temporarily discontinue the furnishing of a service or facility to a customer or terminate the contract.

When we take the initiative to terminate, the regulation's covering termination charges apply as in the case of termination of service at the customer's request.

In the event of discontinuation or termination of business service at a separate location we may transfer the unpaid balance to any other business service account of that customer.

Cancellation After Written Notice:

Five days after furnishing a written notice, we reserve the right to discontinue or terminate service for any of the following conditions:

- in the event of nonpayment of any sum due
- failure to make suitable deposits as required
- improper use of party line service by a customer
- if the character of use of a service is not in accordance with the class of service contracted for, and the customer refuses to contract for the proper class of service
- abuse or fraudulent use of service
- cancellation upon written request by public officials, i.e. judge of a court of record, a federal, state or local law enforcement agency, etc.

After furnishing a verbal notice (a confirming notice will be mailed), we reserve the right to discontinue or terminate service for any of the following conditions:

- use of profane or indecent language over the facilities
- abandonment of the station or facilities
- use of the service or facilities by the customer, or the manner of such use that tends to affect injuriously the efficiency of our general plant or services
- use of a service or facility in a manner which substantially impairs the service of a particular customer



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• in the event a customer transmits a previously recorded message over the exchange or toll facility without properly identifying himself or the sponsor.

Cancellation Of Service Provided By Another Company:

We are permitted to discontinue or terminate basic local exchange service of a customer for non-payment of undisputed charges of another provider if that provider's charges are billed by us, and the charges are either regulated by the Commission or the FCC.

Tracking Requirements:

The CSR needs to indicate all treatment levels. The collection reports will be required to report local data such as local usage, revenues in collections, etc.

9.10 Bill Production

Local bill feeds will be validated by the billing control office before AT&T processes it for bill pull. Back-out and re-run procedures need to be defined.

9.11 Bill Rate Inquiry

The biller needs to provide access to local call rating tables for inquiry and bill verification.

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Local Service Marketing Service Description

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PLEASE NOTE: ALL CHANGES ARE UNDERLINED AND HAVE A LINE IN THE MARGIN

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11. Billing

The LEC will record the customers local usage and forward it electronically to AT&T

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11.1 Features/Options To Support

Initially Billing needs to support the following list of features/options, with the flexibility to charge and bundle elements in price packages:

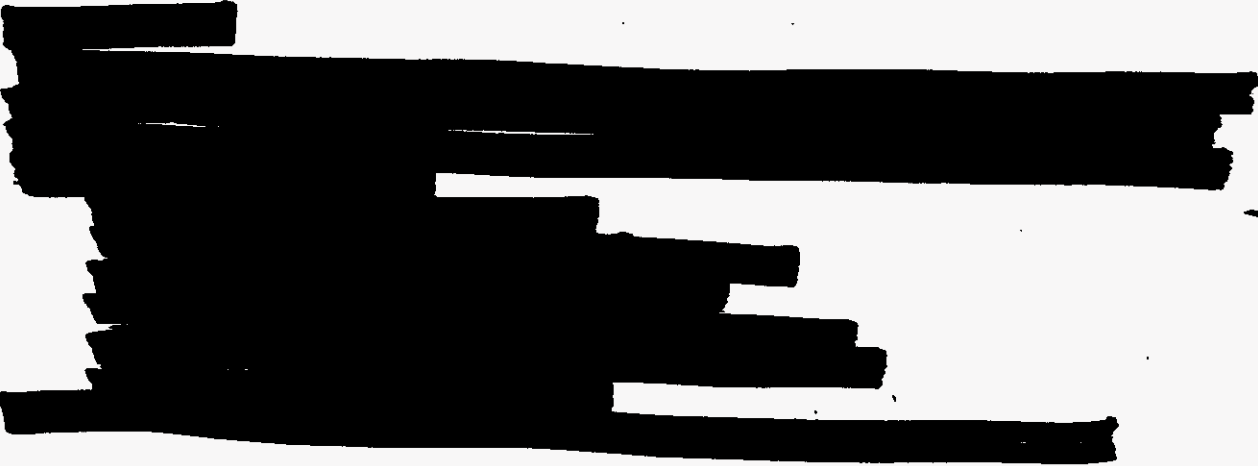
| FEATURE/OPTION | Non-Recurring Charge | Monthly Recurring Charge | Usage Charges |
|---|----------------------|--|---------------|
| Line Types: | | | |
| Basic Business Lines | X | X | Calling Plan |
| PBX Trunk Lines | X | X | Calling Plan |
| Direct Inward Dialing lines/trunks | X | X | |
| Direct Outward Dialing lines/trunks (DOD) | X | X | Calling Plan |
| DS1 Nodal DS3 Nodal | X | X (Mileage based, Channel termination, interoffice Channel charge) | X |
| DS1-Nodal | X | X (Mileage-based, Channel termination, interoffice Channel charge) | X |
| DID numbers (per 100) | | X | |
| FCC Line Charges | | X | |
| Switched Digital Services | X | X | X |
| Tie Lines | X | X (Mileage based, Channel termination, interoffice Channel charge) | |
| FX Service | X | X (Mileage based, Channel termination, interoffice Channel charge) | X |
| Off Premises Extensions | X | X (Mileage based, Channel termination, interoffice Channel charge) | |

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| Call Transfer | X | X | |
| Call Tracing | X | X | |
| Priority Call Ringing | X | X | |
| Customized/Distinctive Ringing | X | X | |
| Automatic Route Selection | X | X | |
| Automatic Identified Outward Dialing | X | X | |
| Network Call Distribution | X | X | |
| ISDN (With associated features) | X | X | X |
| CENTREX (With associated features) | X | X | |
| Voice Mail | X | X | |
| Alarm Circuits | X | X | X |
| 800 Service | X | X | X |
| Local Teleconferencing | X | X | X |
| Local Calling Card | X | X | X |
| Miscellaneous: | | | |
| Change Charge (Plan Change) | X | | |
| Maintenance Charges | Based on Minutes | | |
| Inside Wiring | X | | |
| Non-Published Listing | X | X | |
| Vanity Number | | X | |
| White Page Listing | Comes with line | | |
| Yellow Page Listing | | X | |

Bold Items are currently defined for July 1995 development (Except for Uniplan Calling Plans)





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AT&T Proprietary (Restricted)
Solely for the authorized persons having a need to know
pursuant to Company instructions

200208

**Local Directory Assistance
Technical Plan**

**For a 411 Call
with
Mixed Local & Long Distance Queries**

Draft 1

version 1.1

March 8, 1996

Coordinator: L. C. Mui

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—AT&T— Proprietary (Restricted)
Use pursuant to Company Instructions

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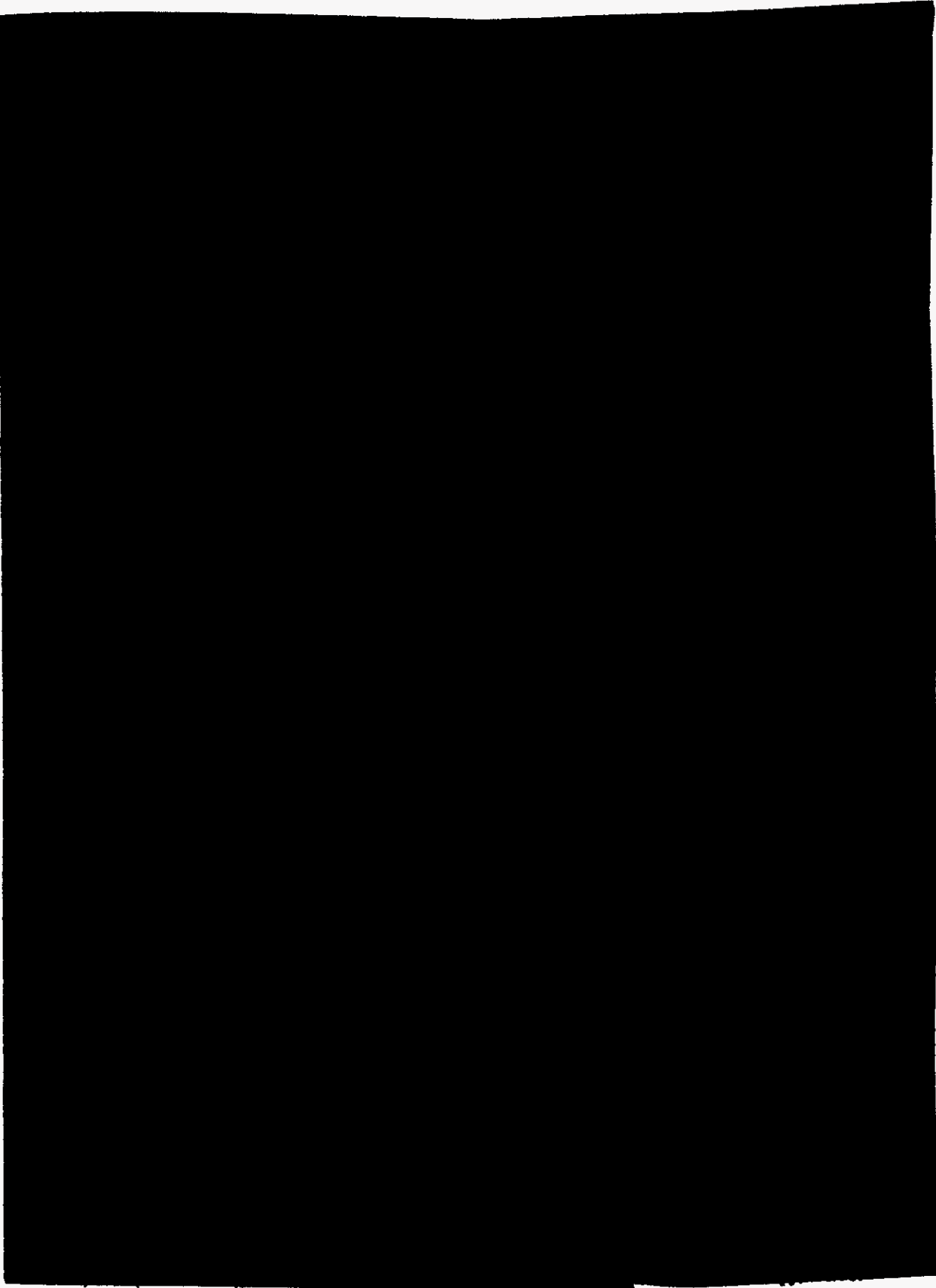
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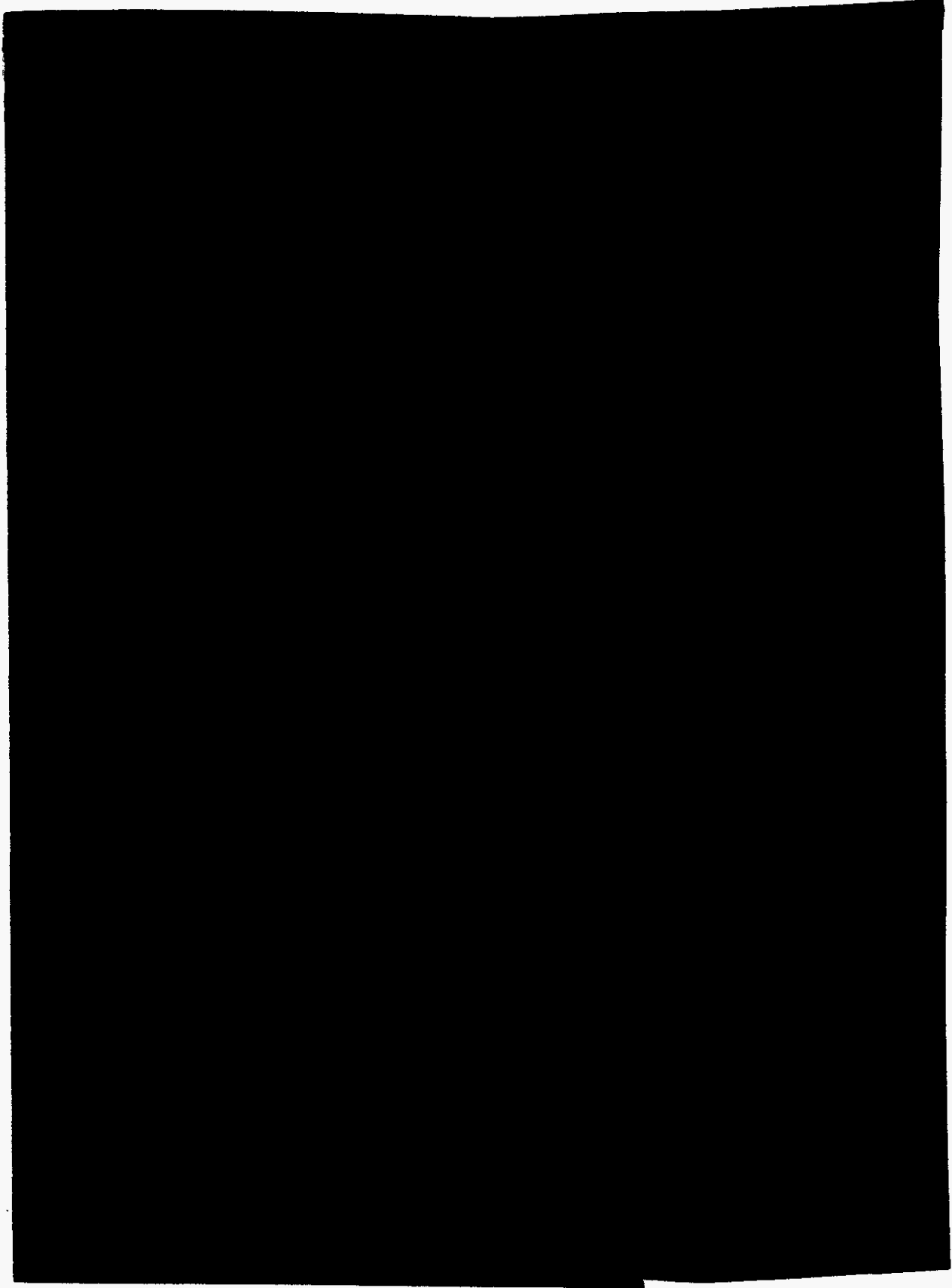
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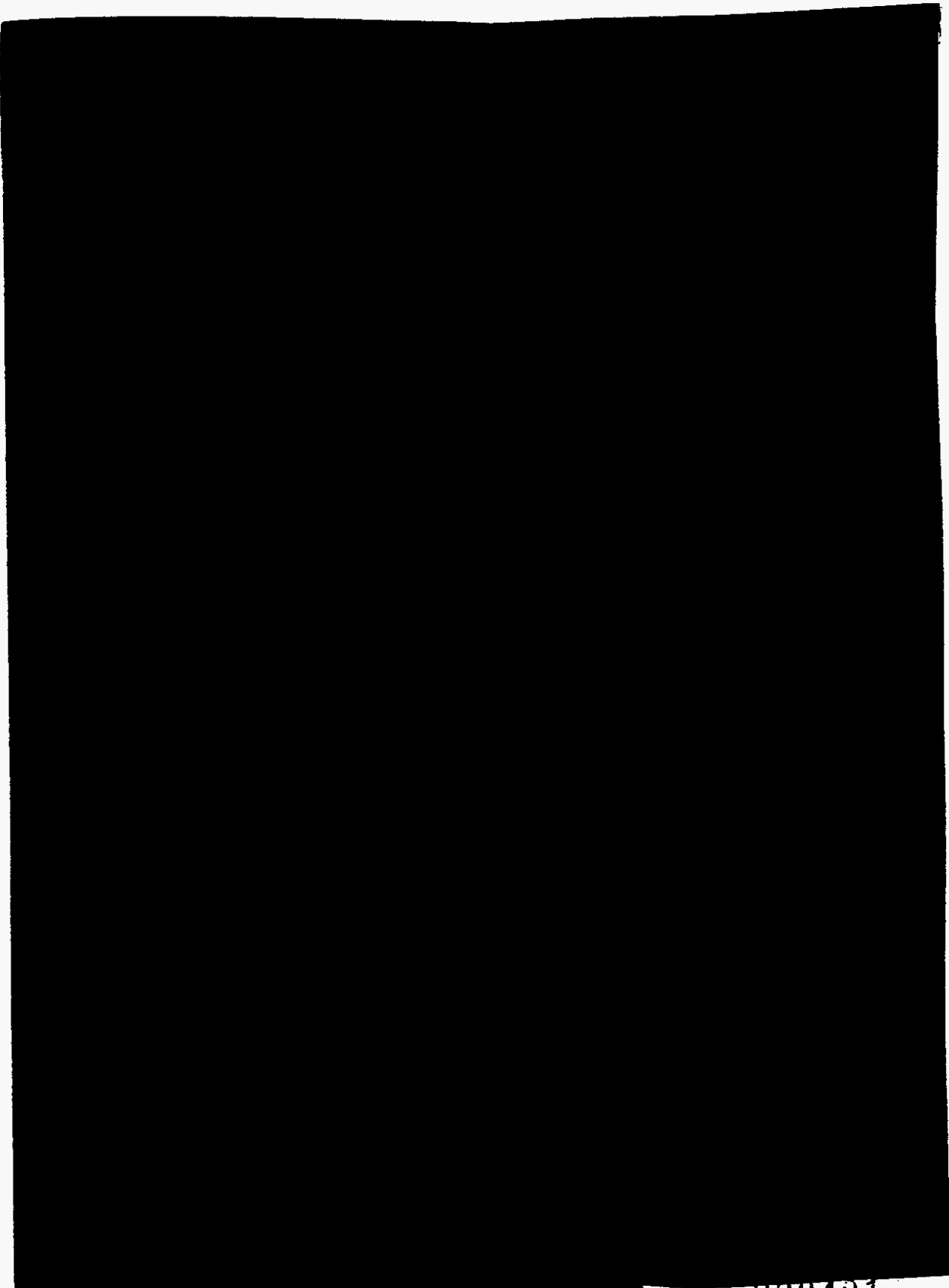
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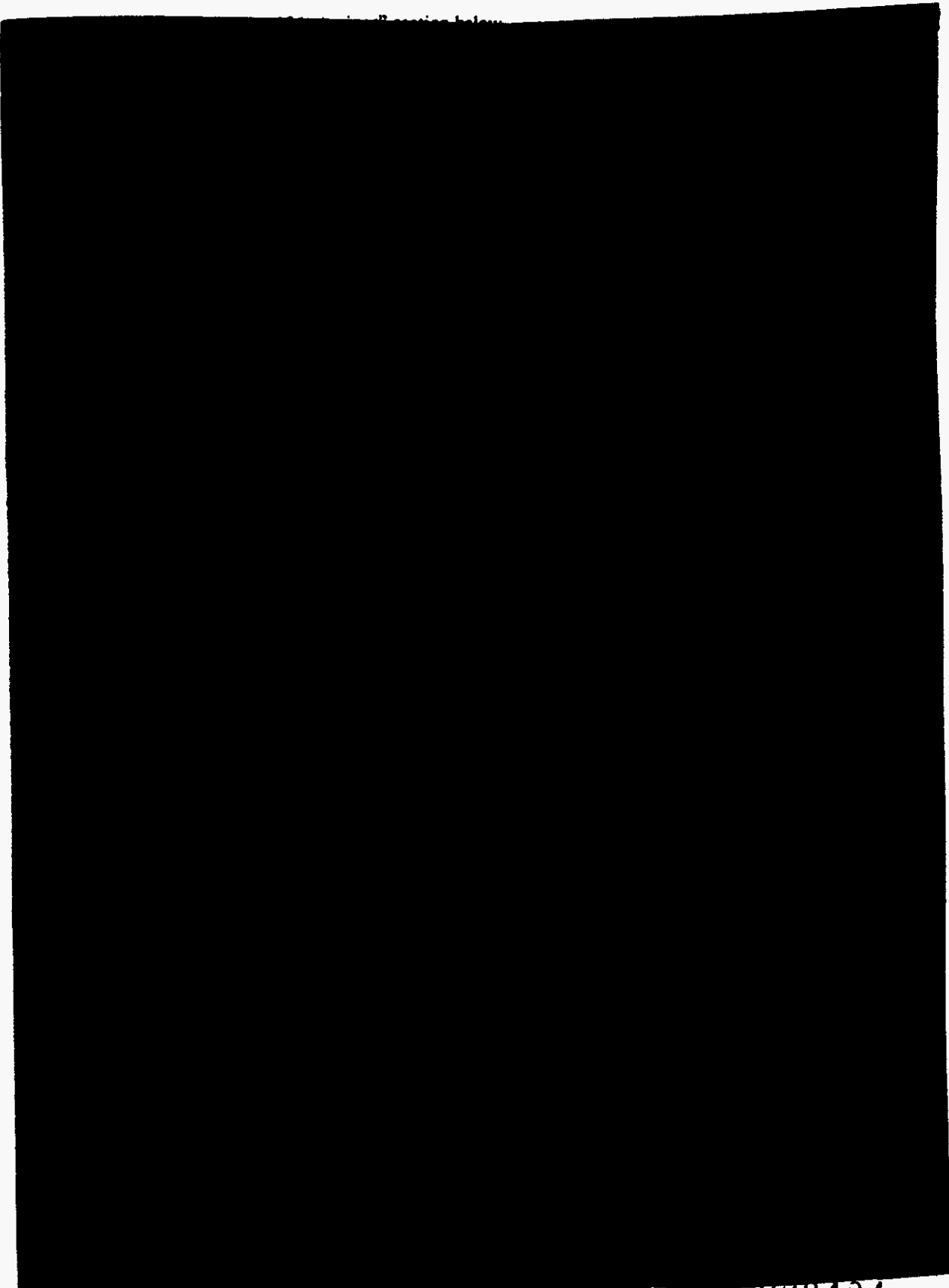
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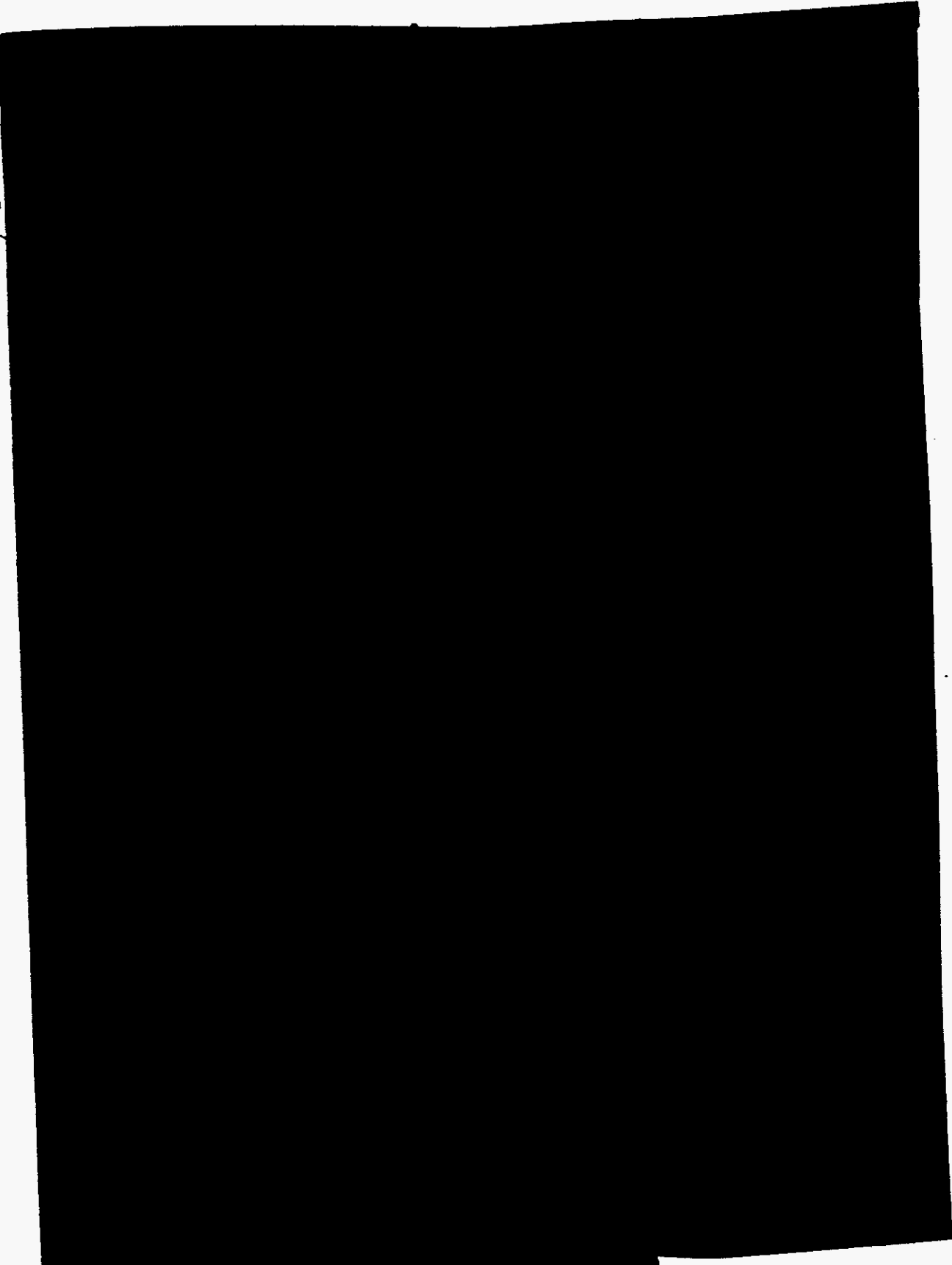


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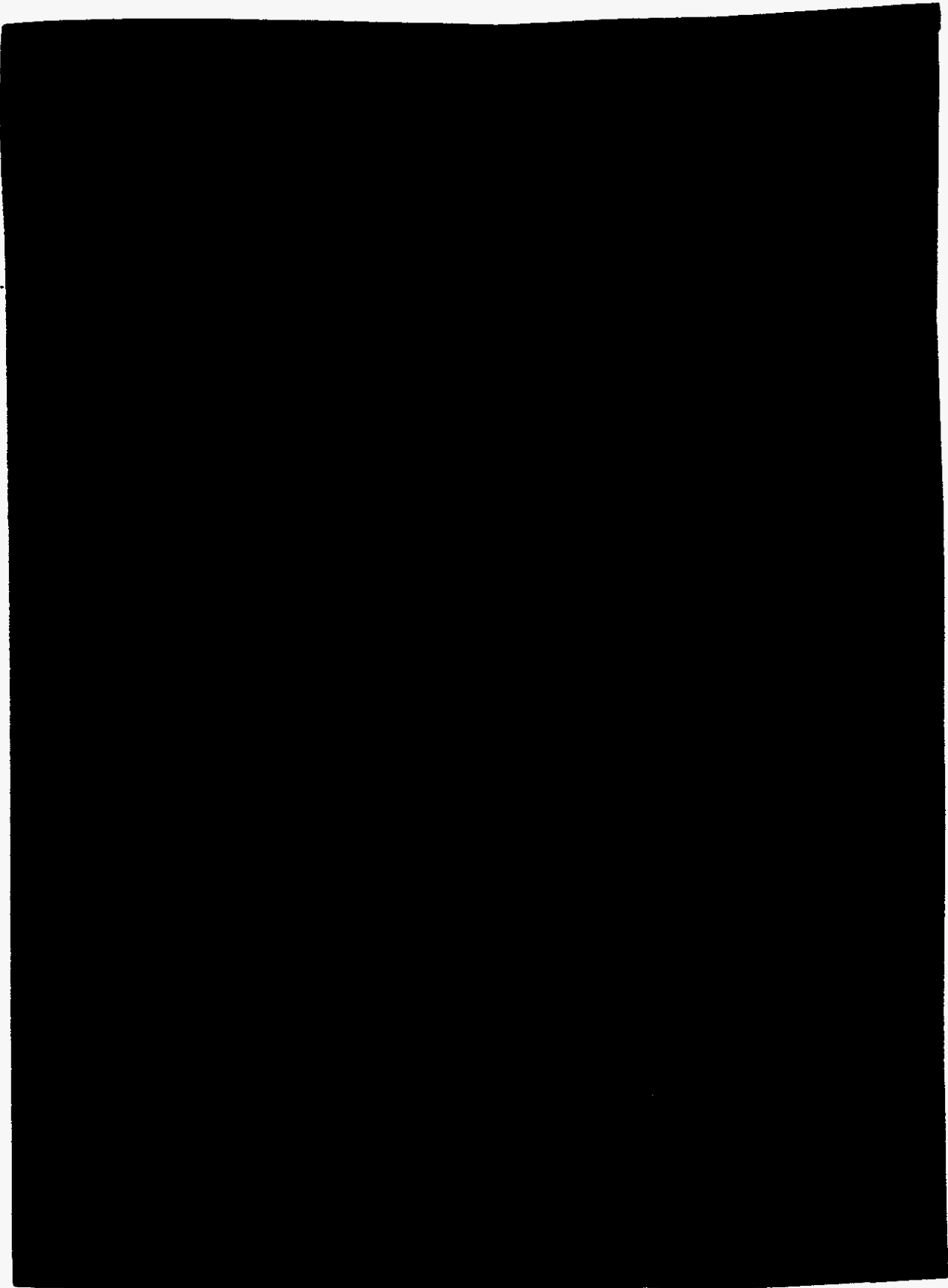
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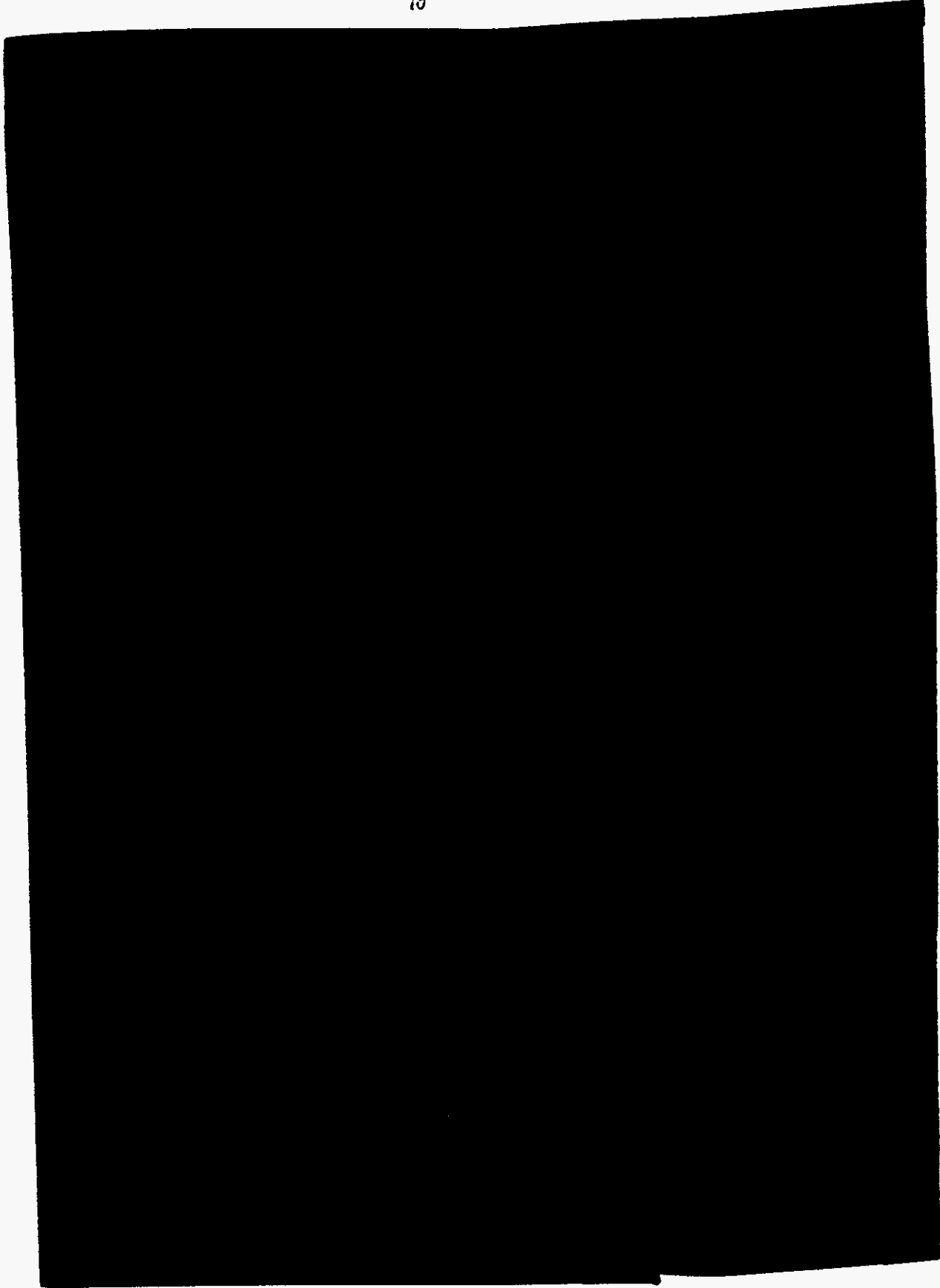
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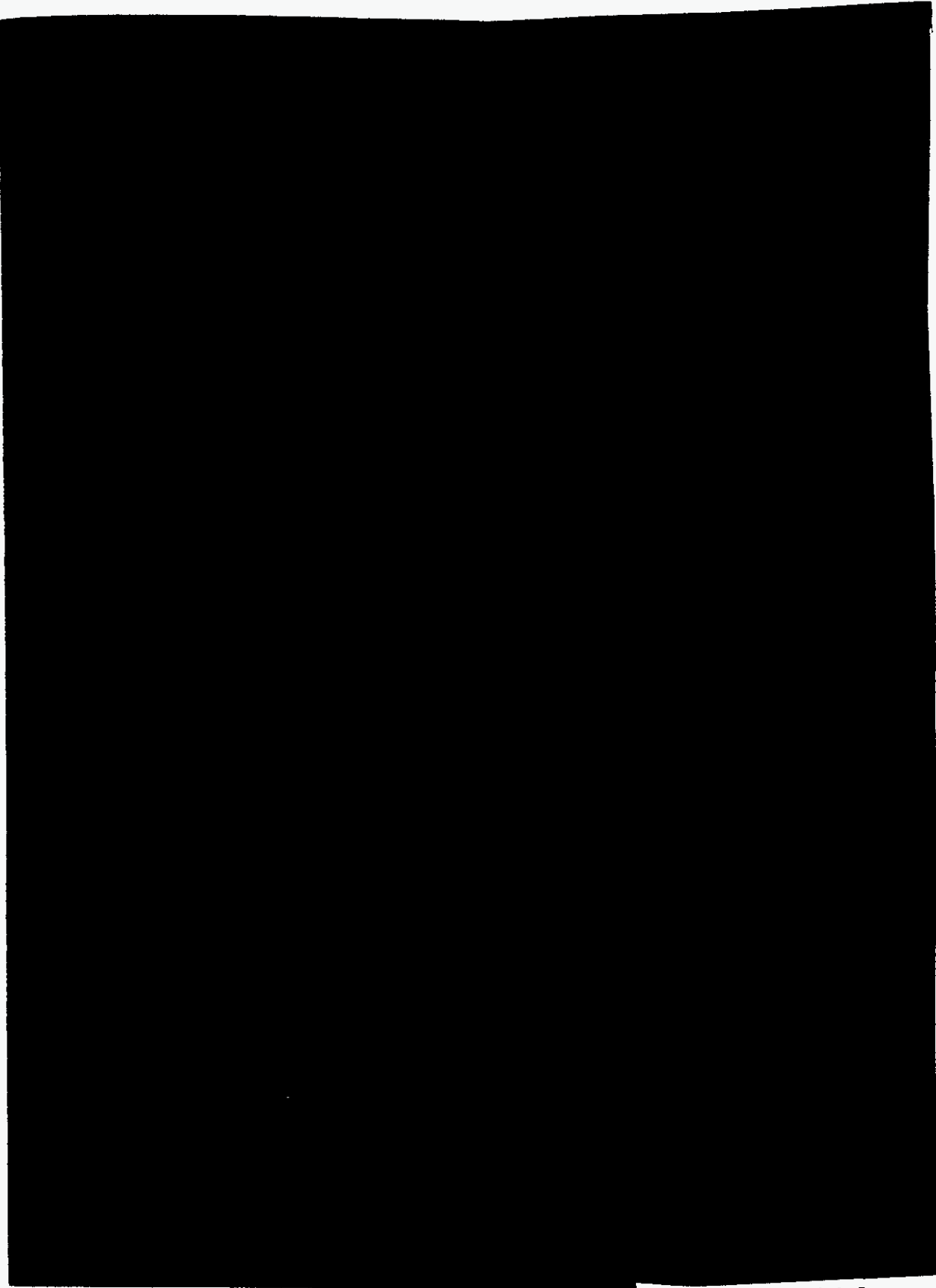
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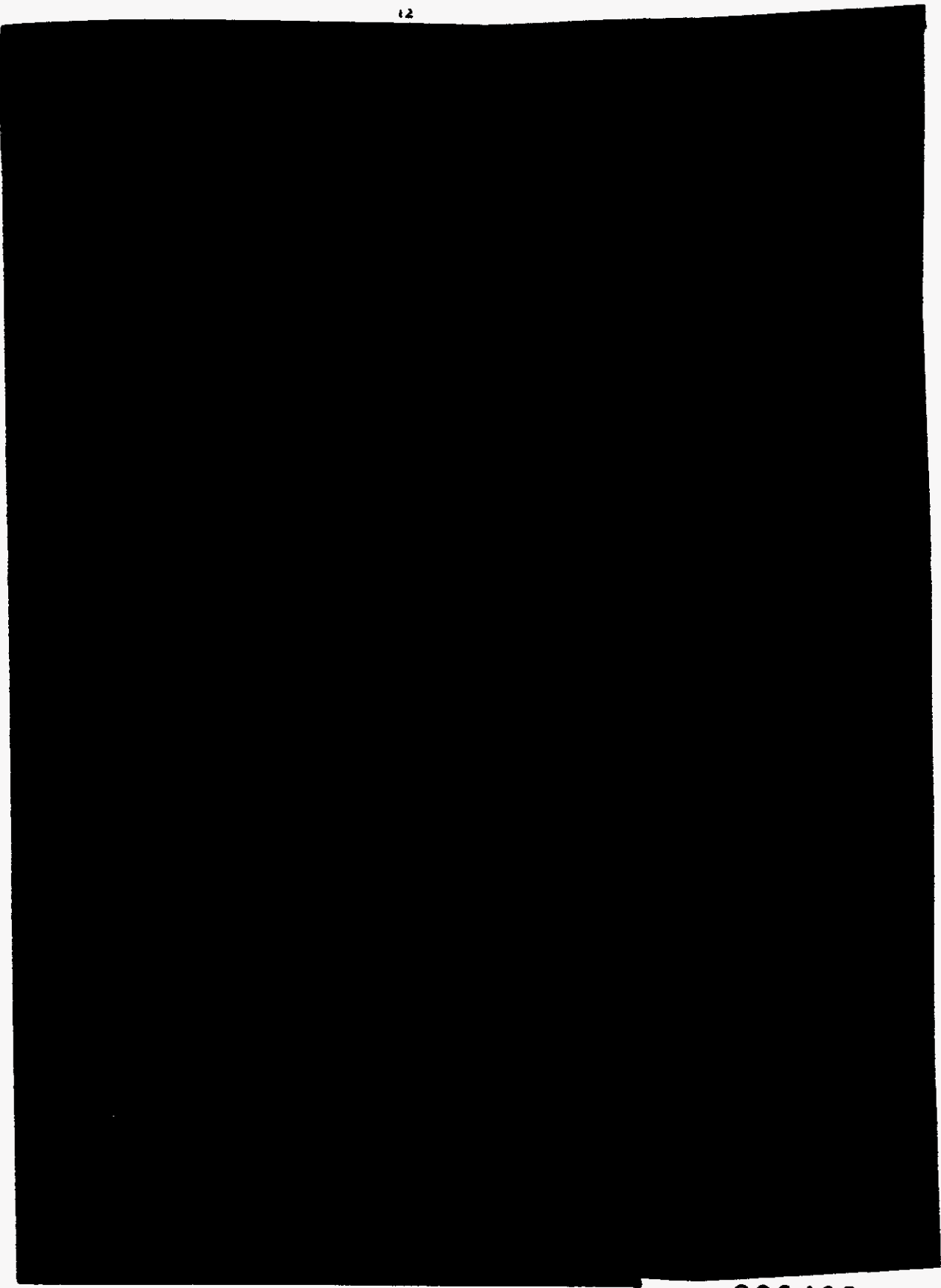
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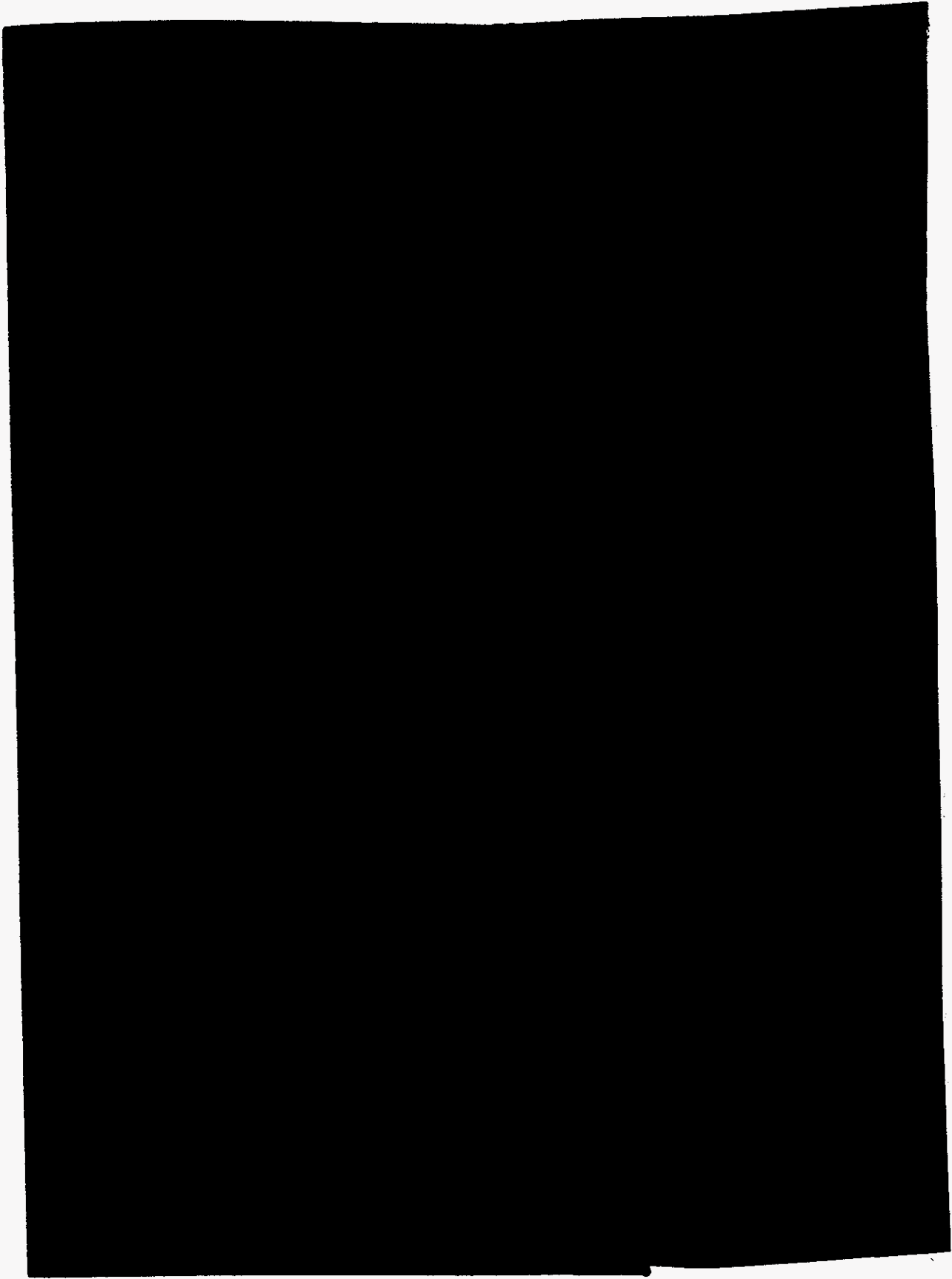
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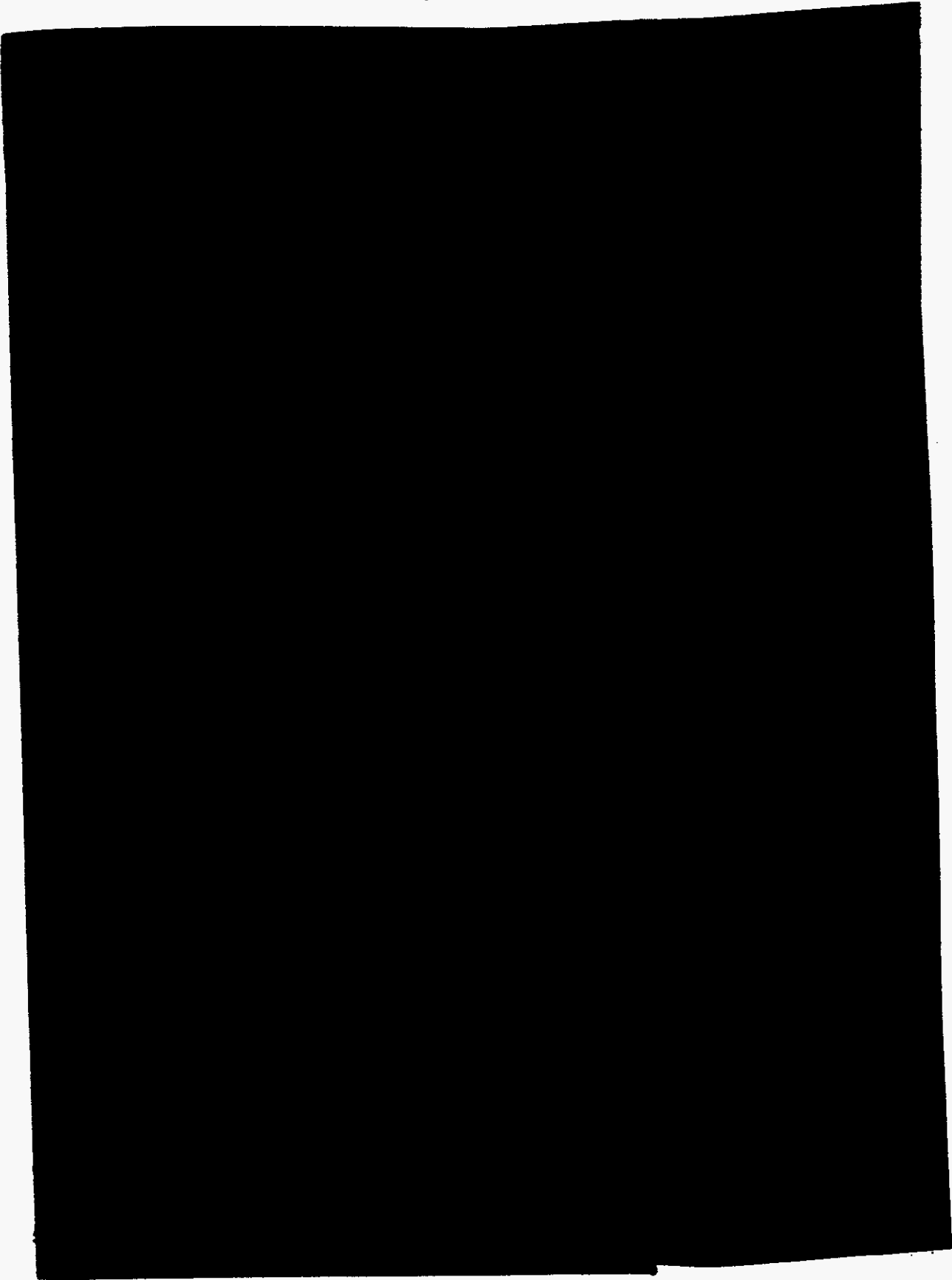
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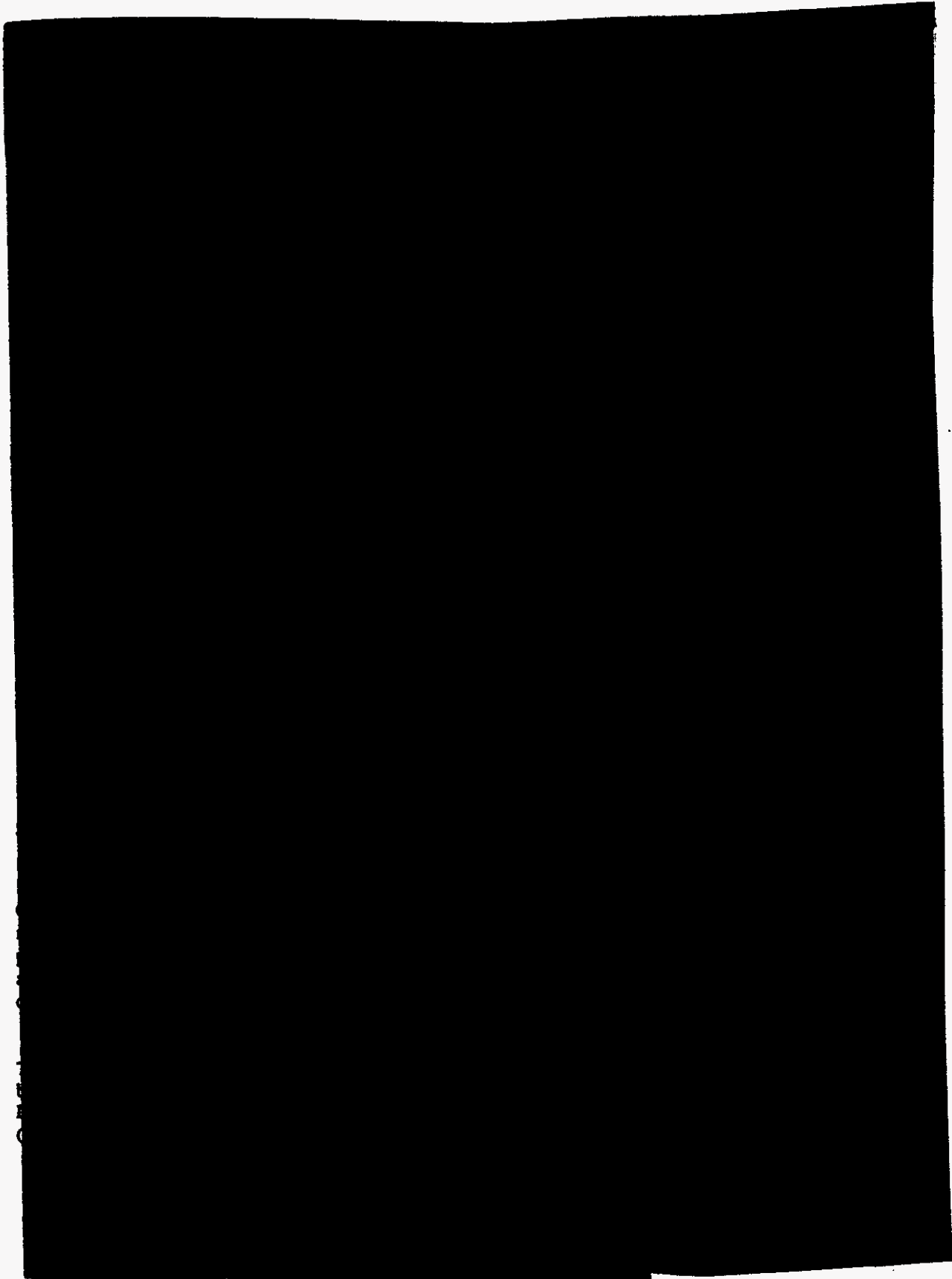
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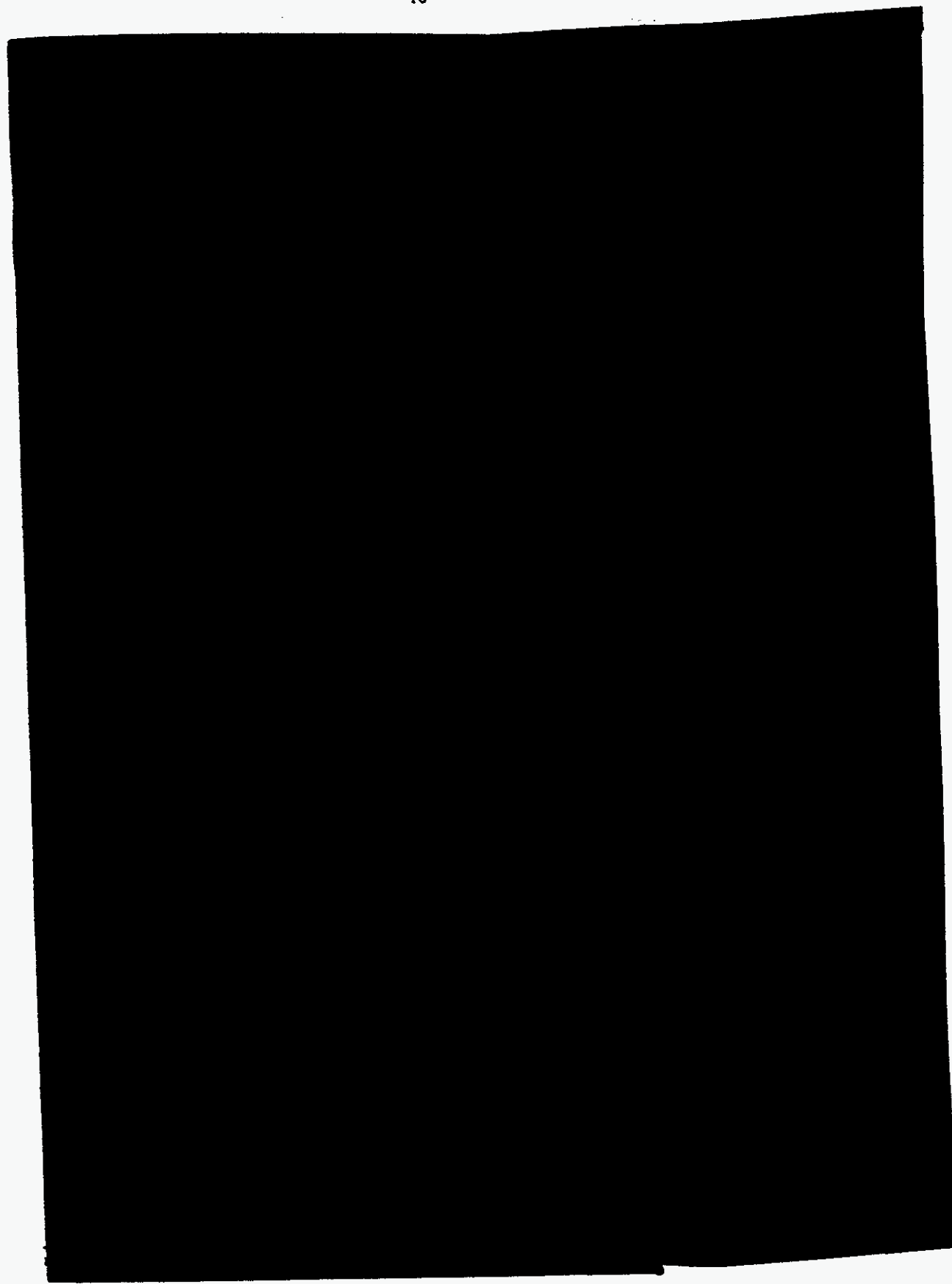
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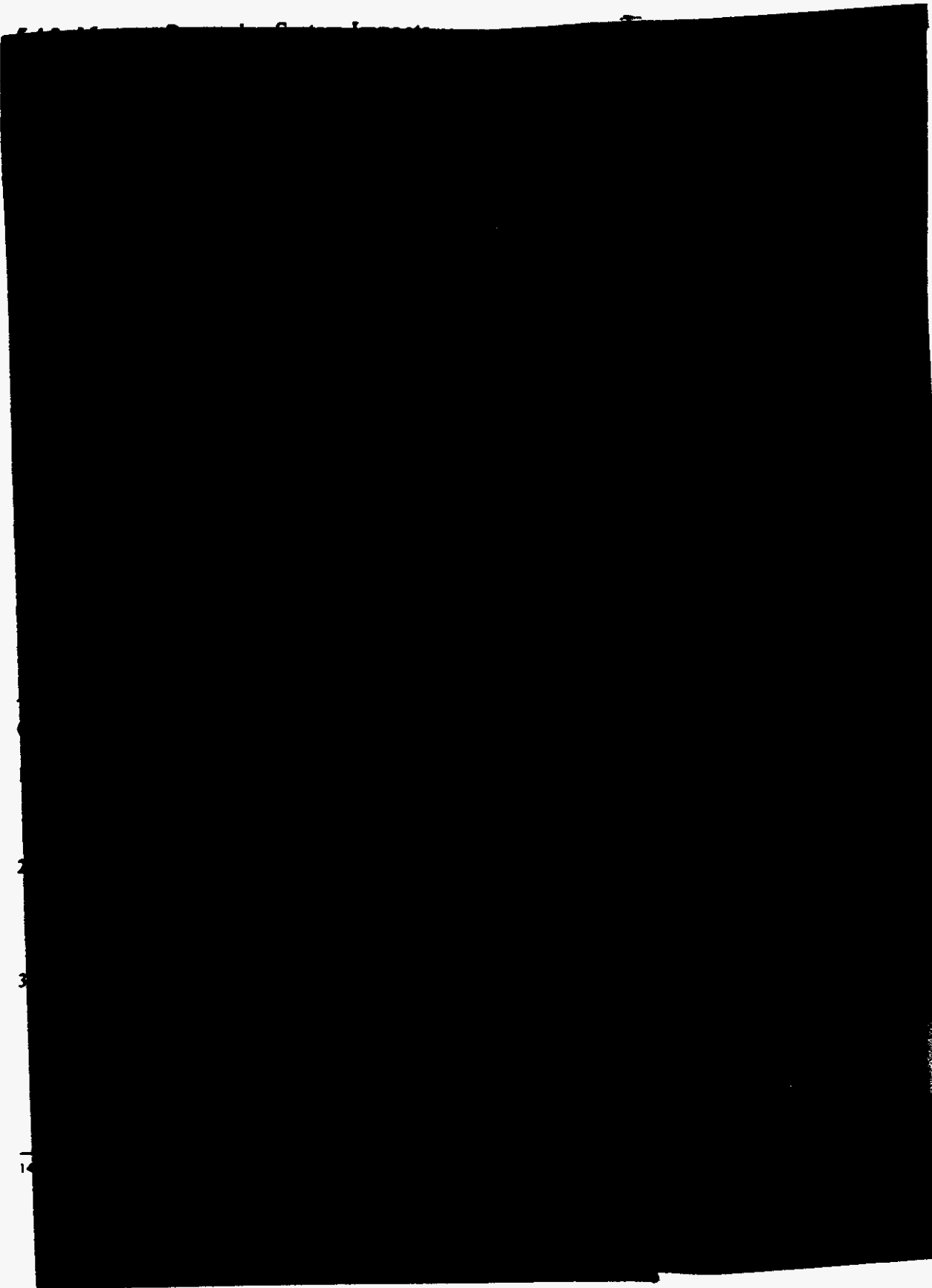
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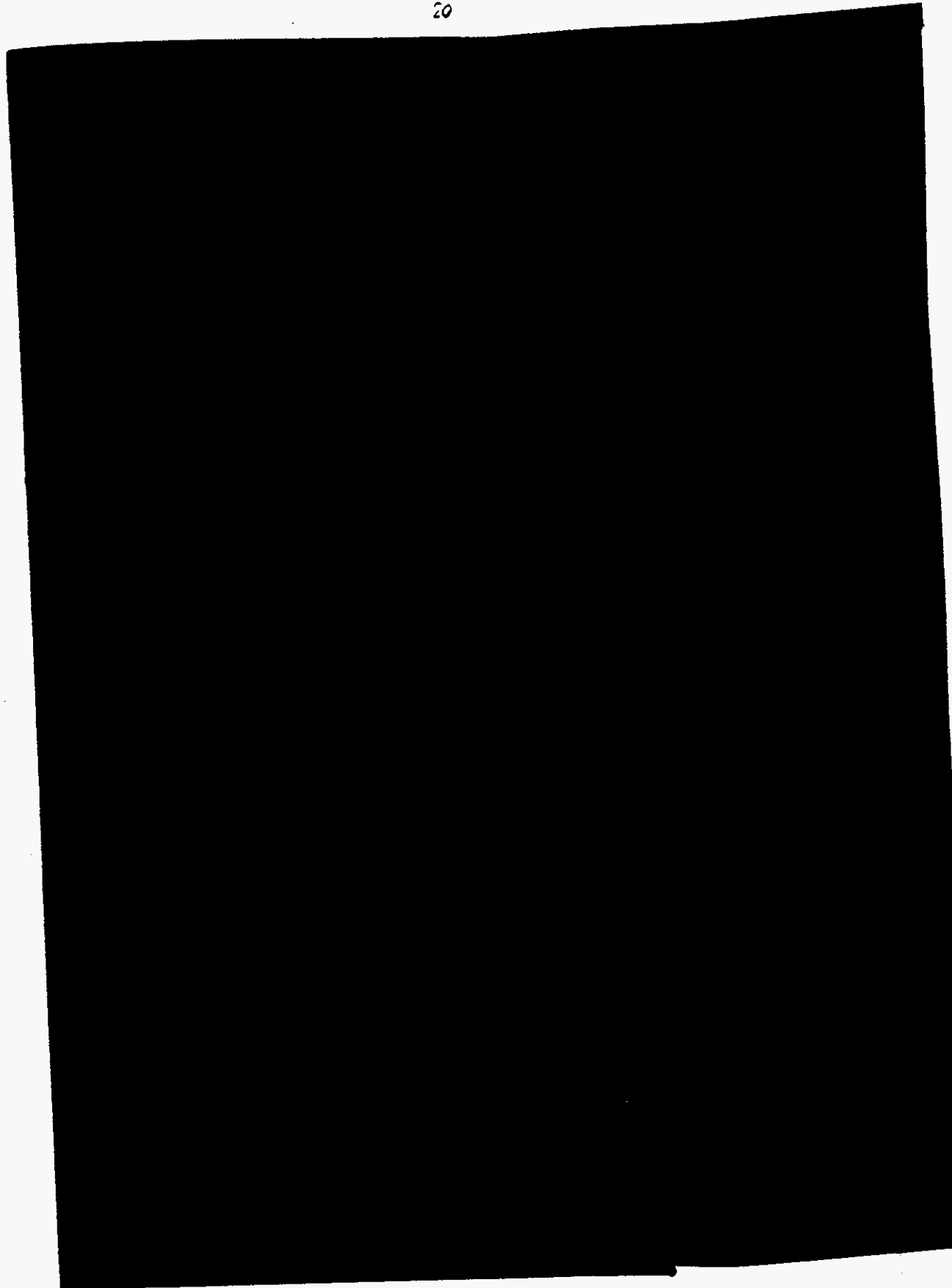
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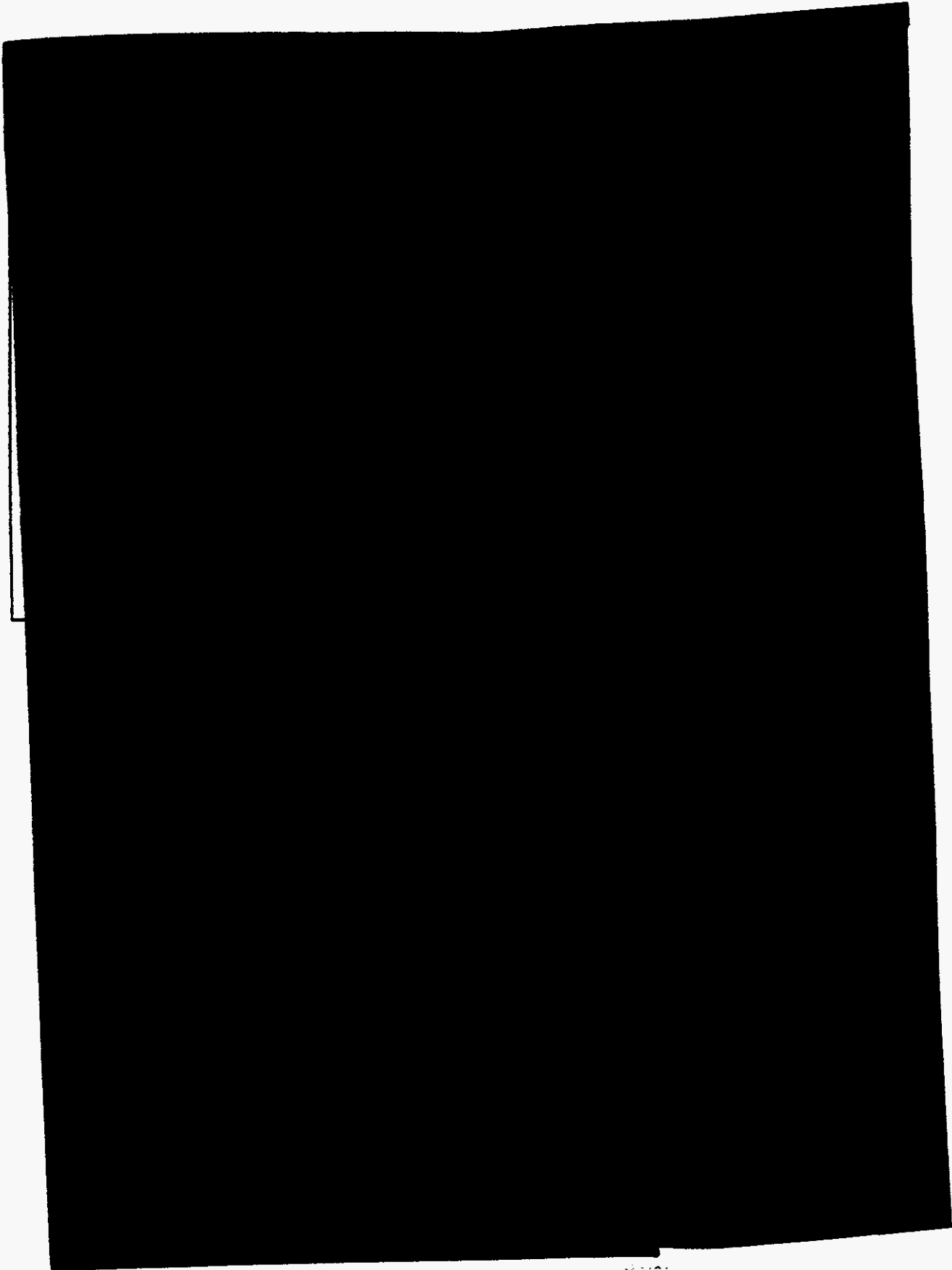
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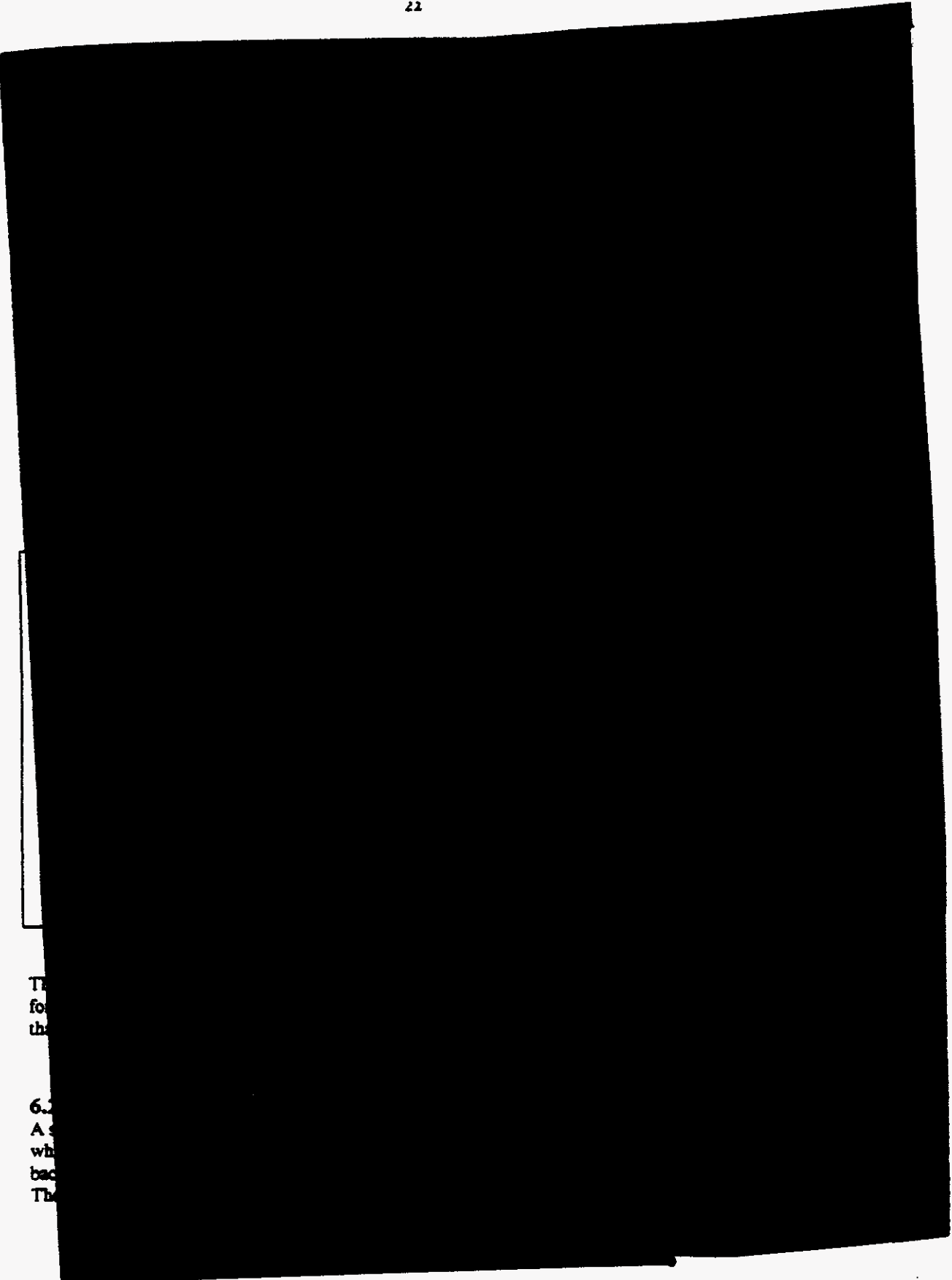
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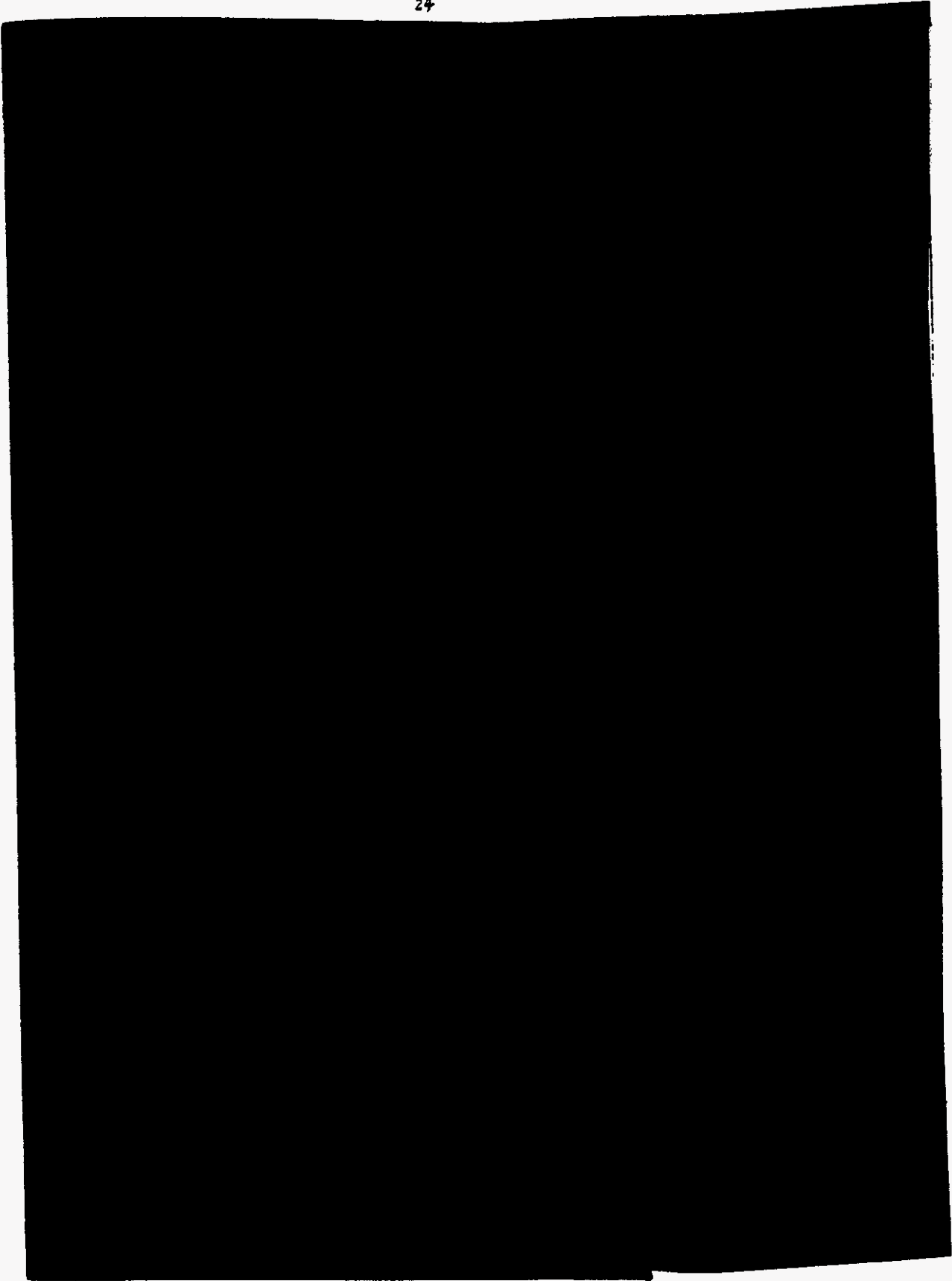
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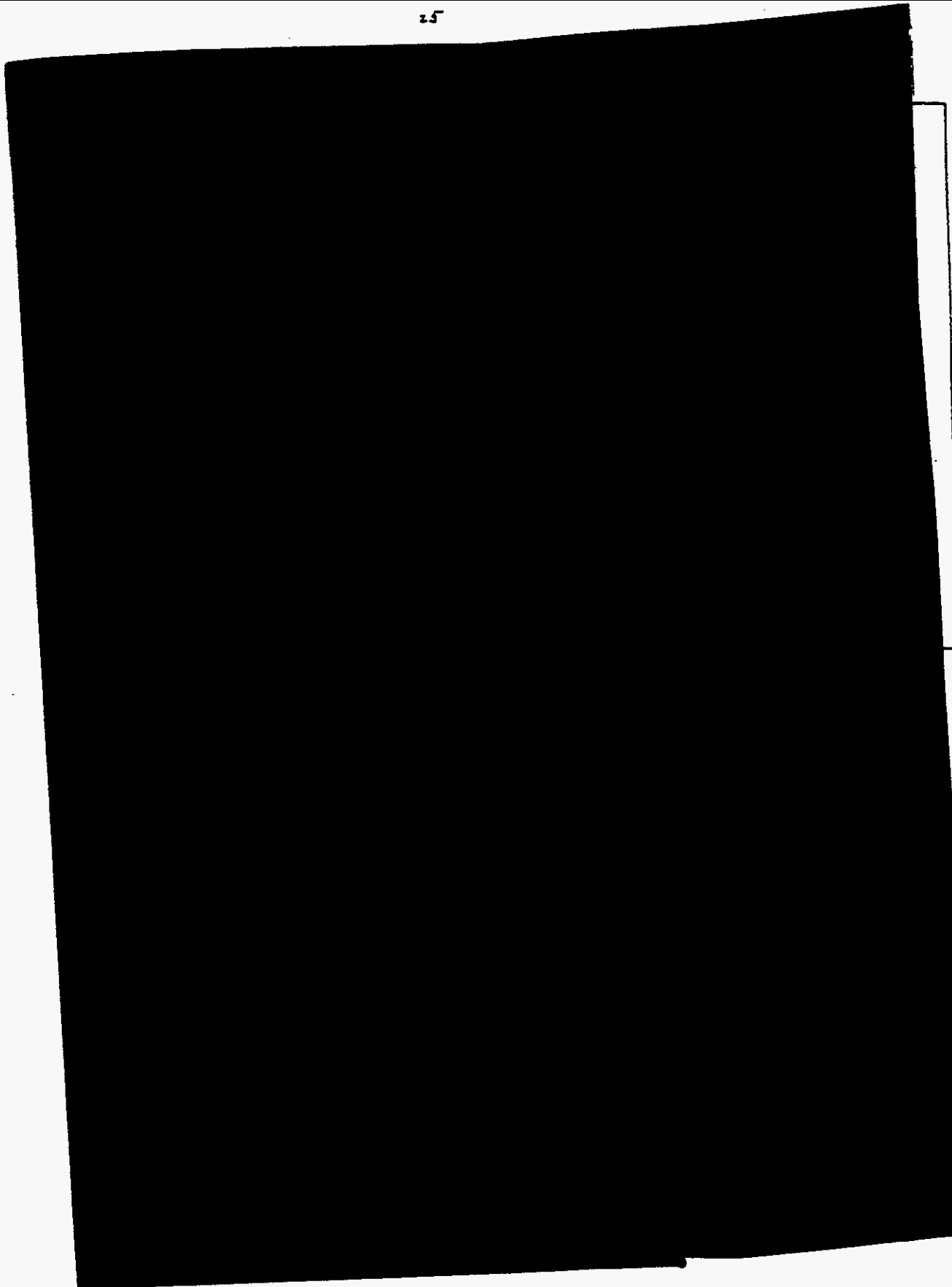
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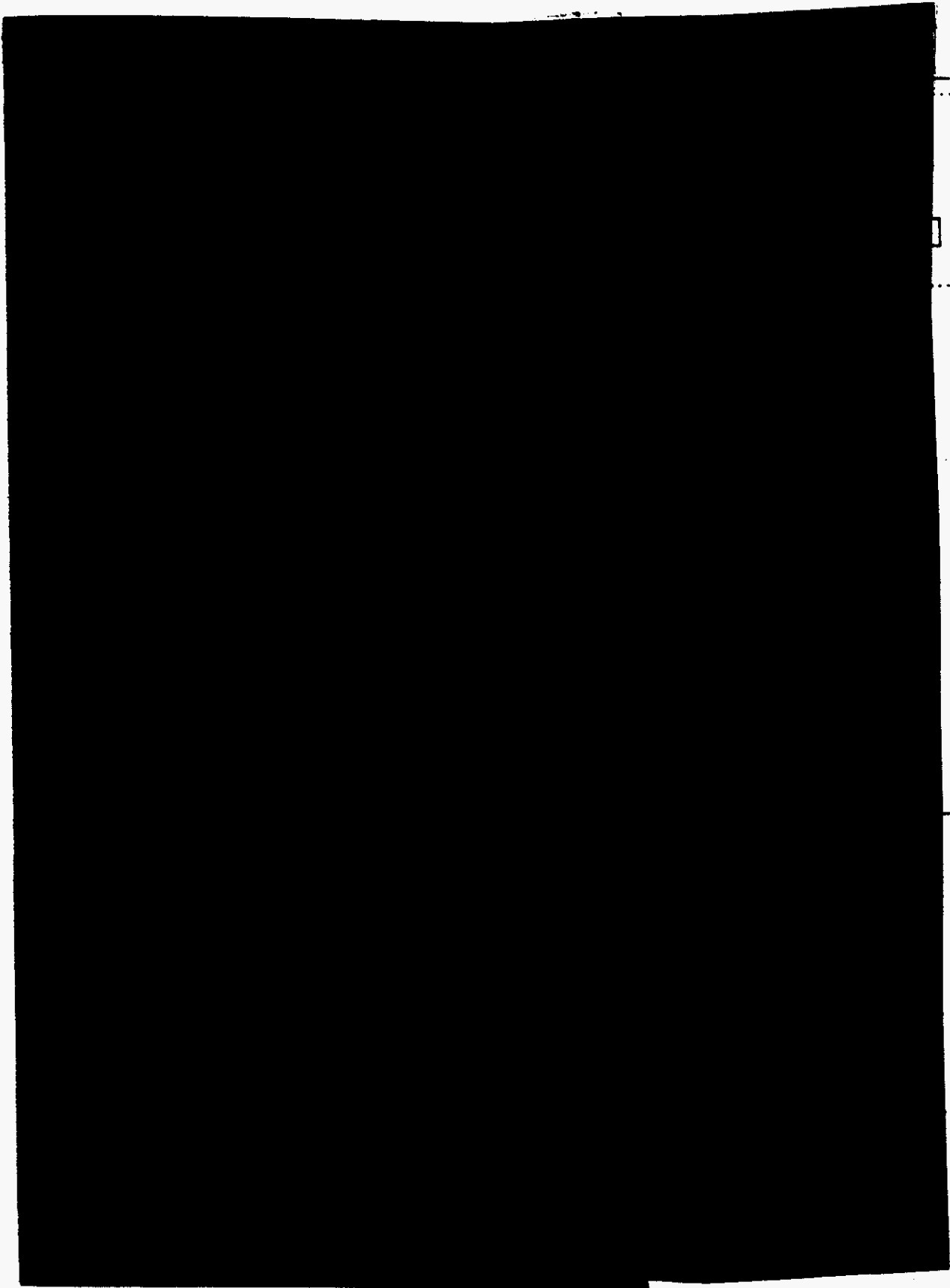
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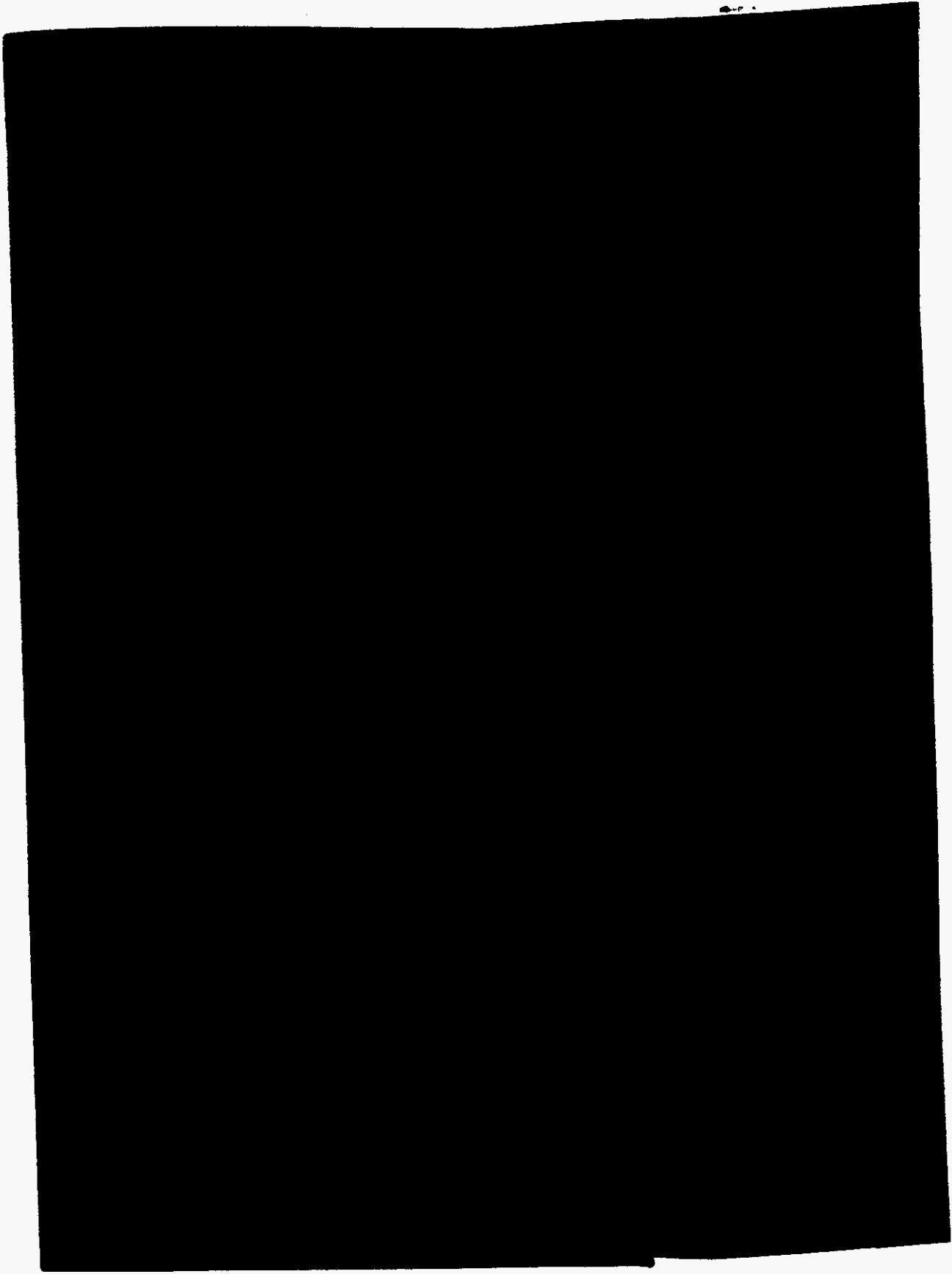
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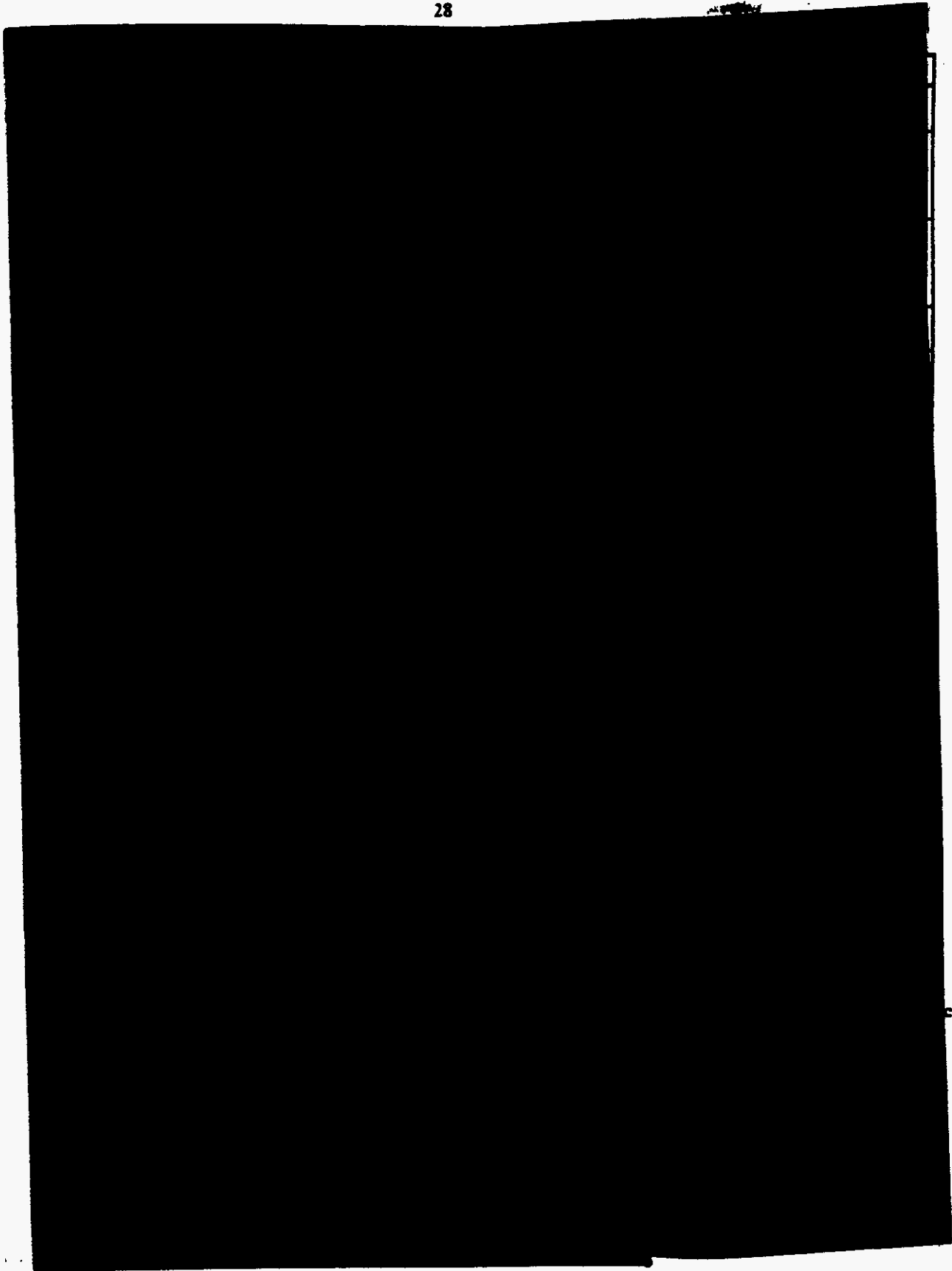
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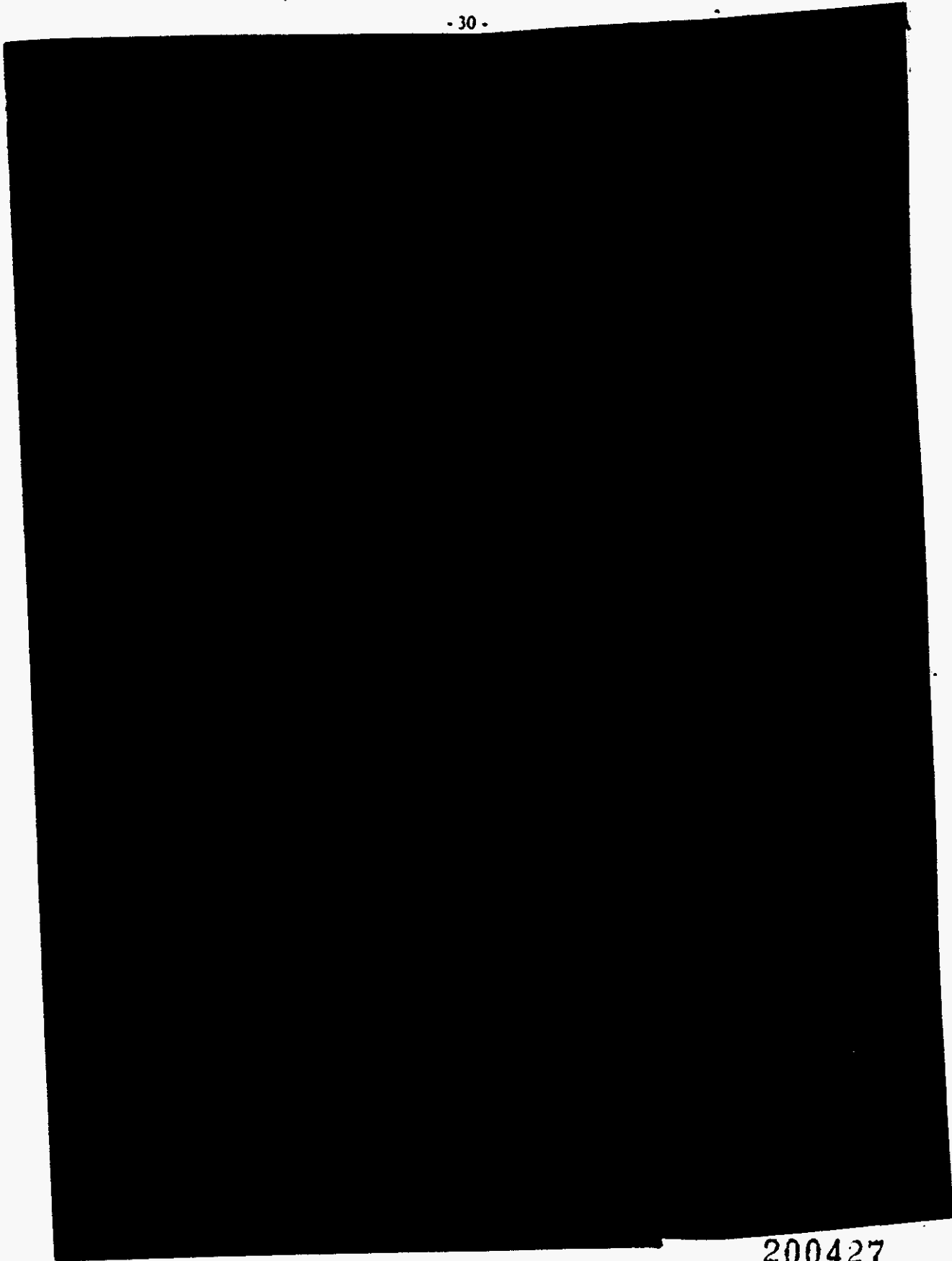


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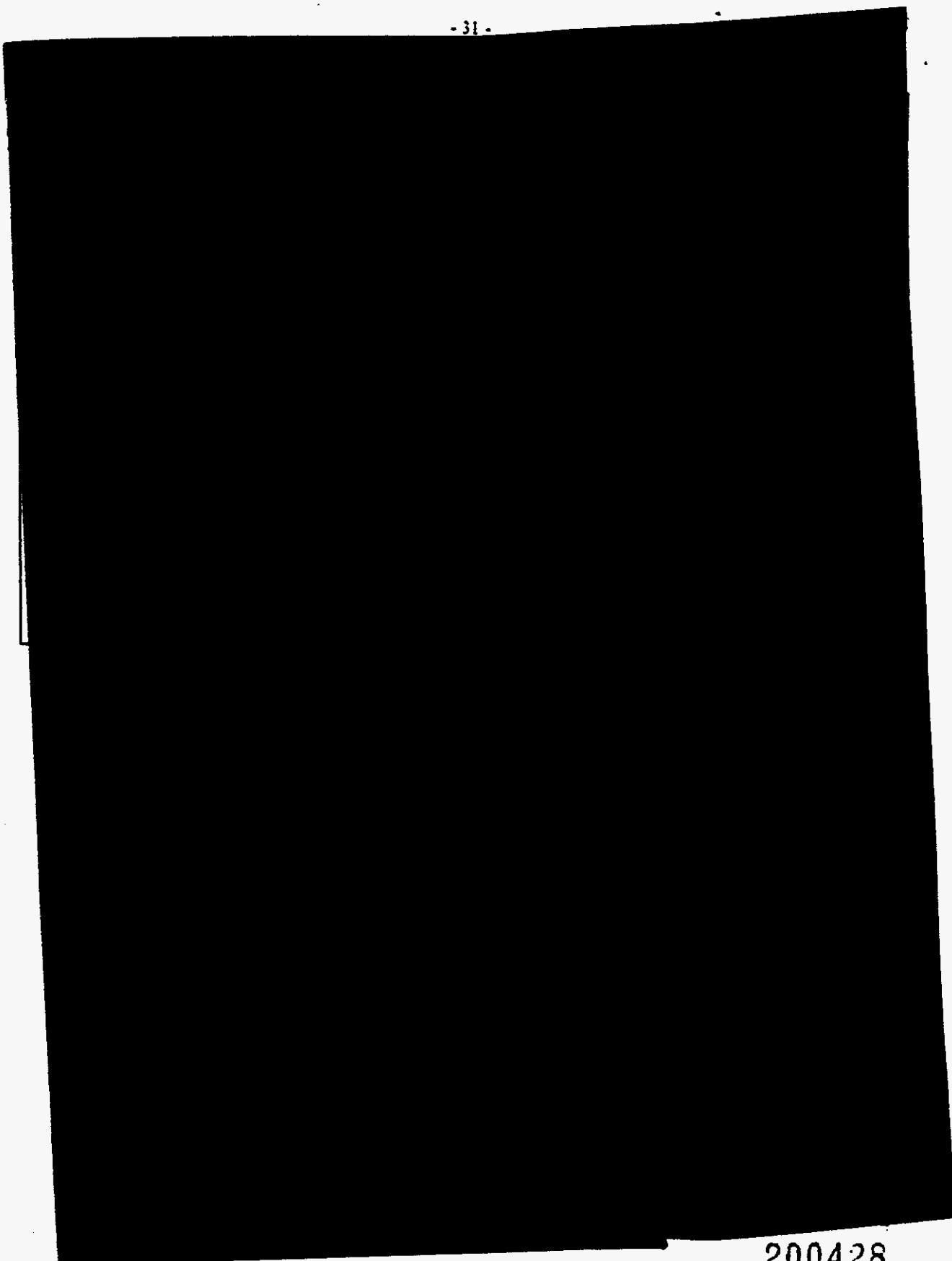
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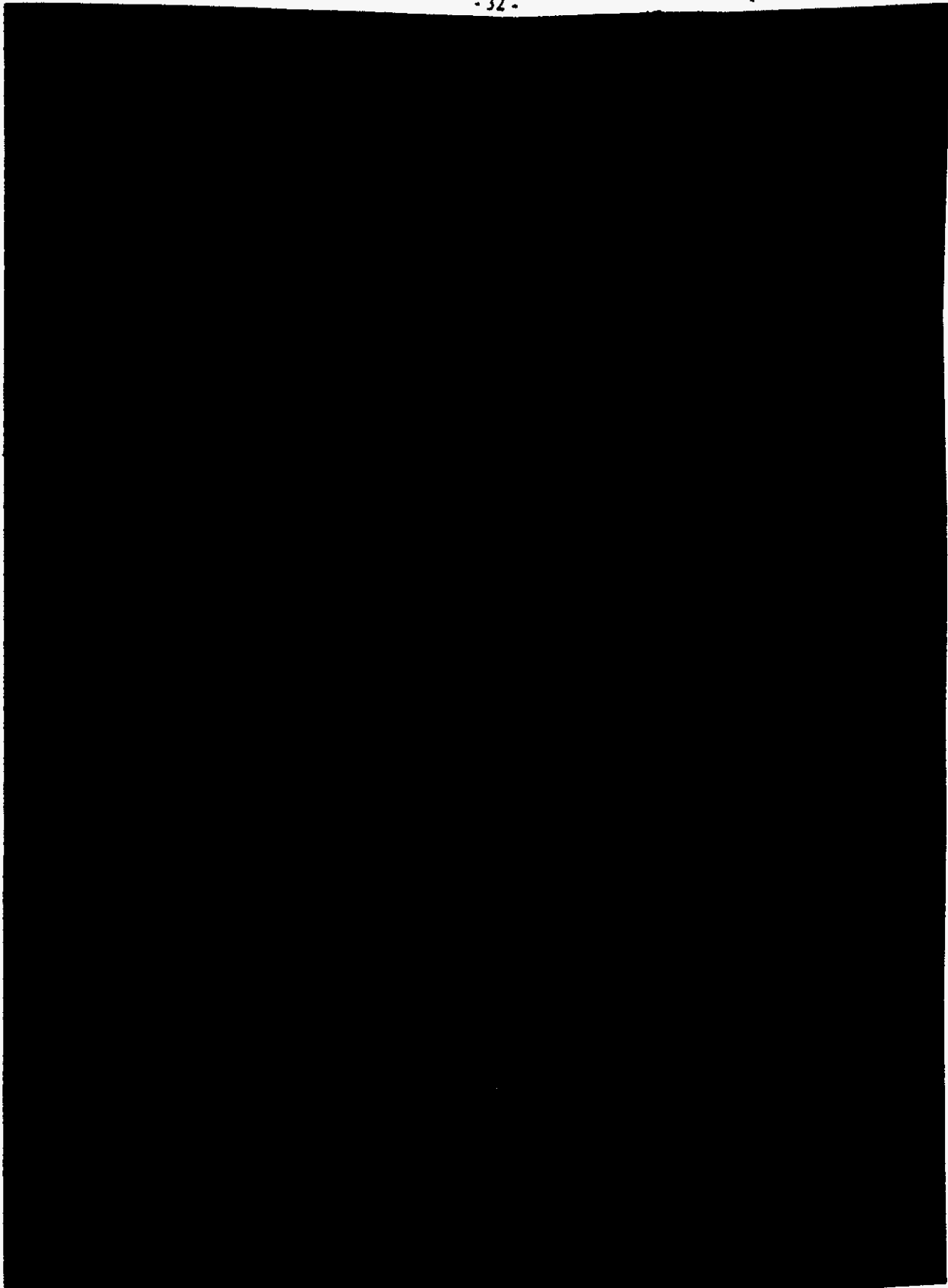
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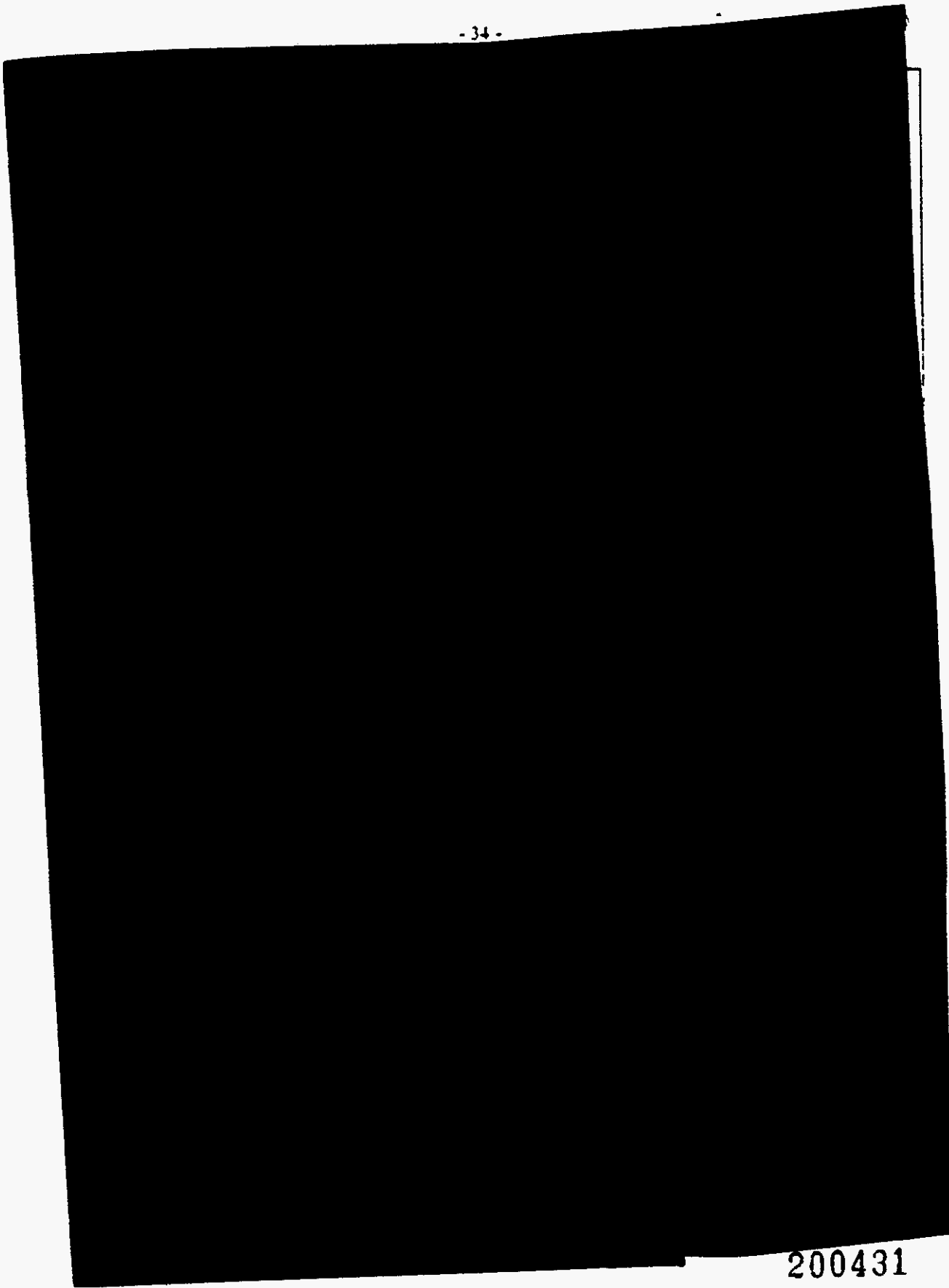
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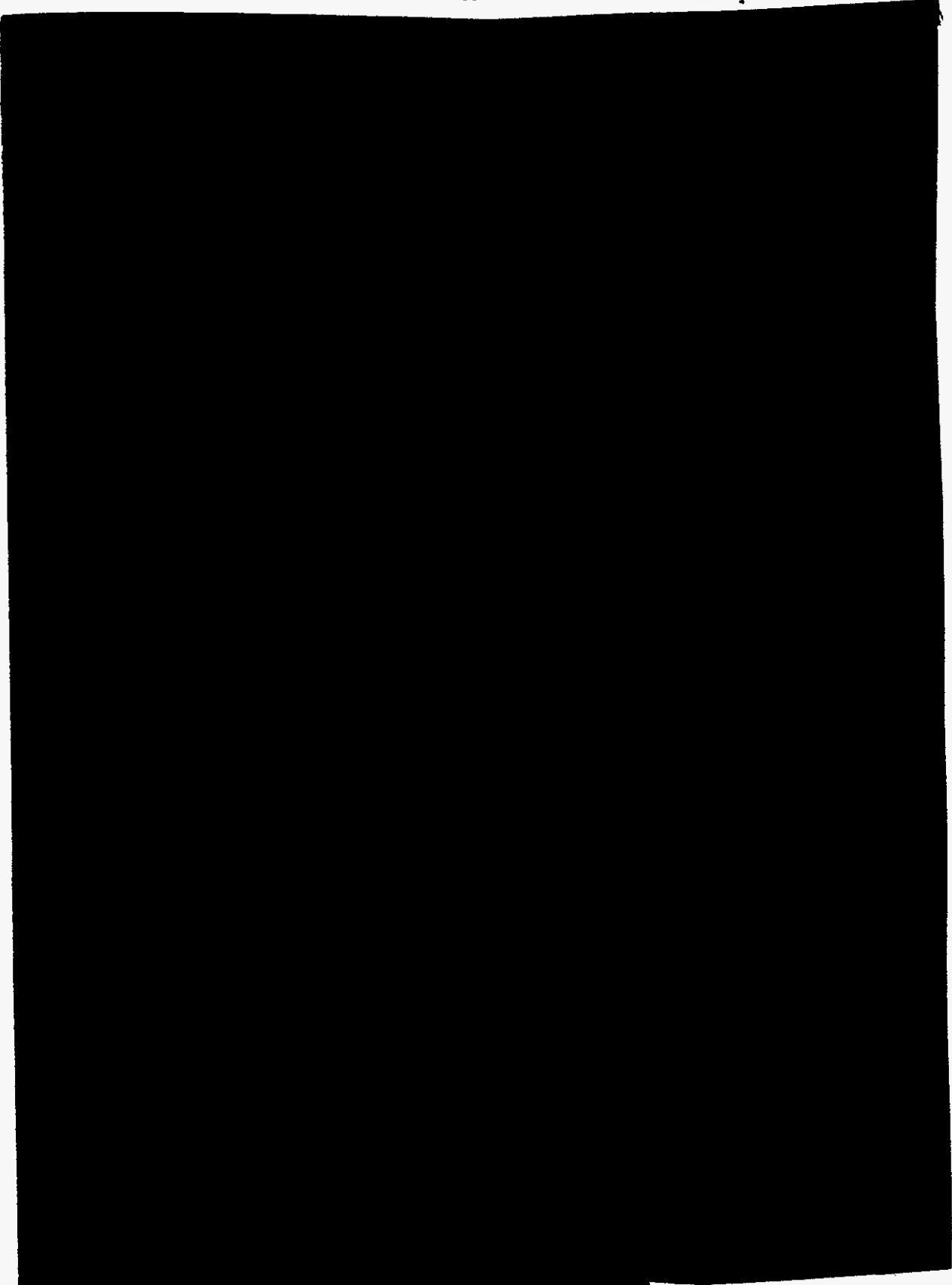


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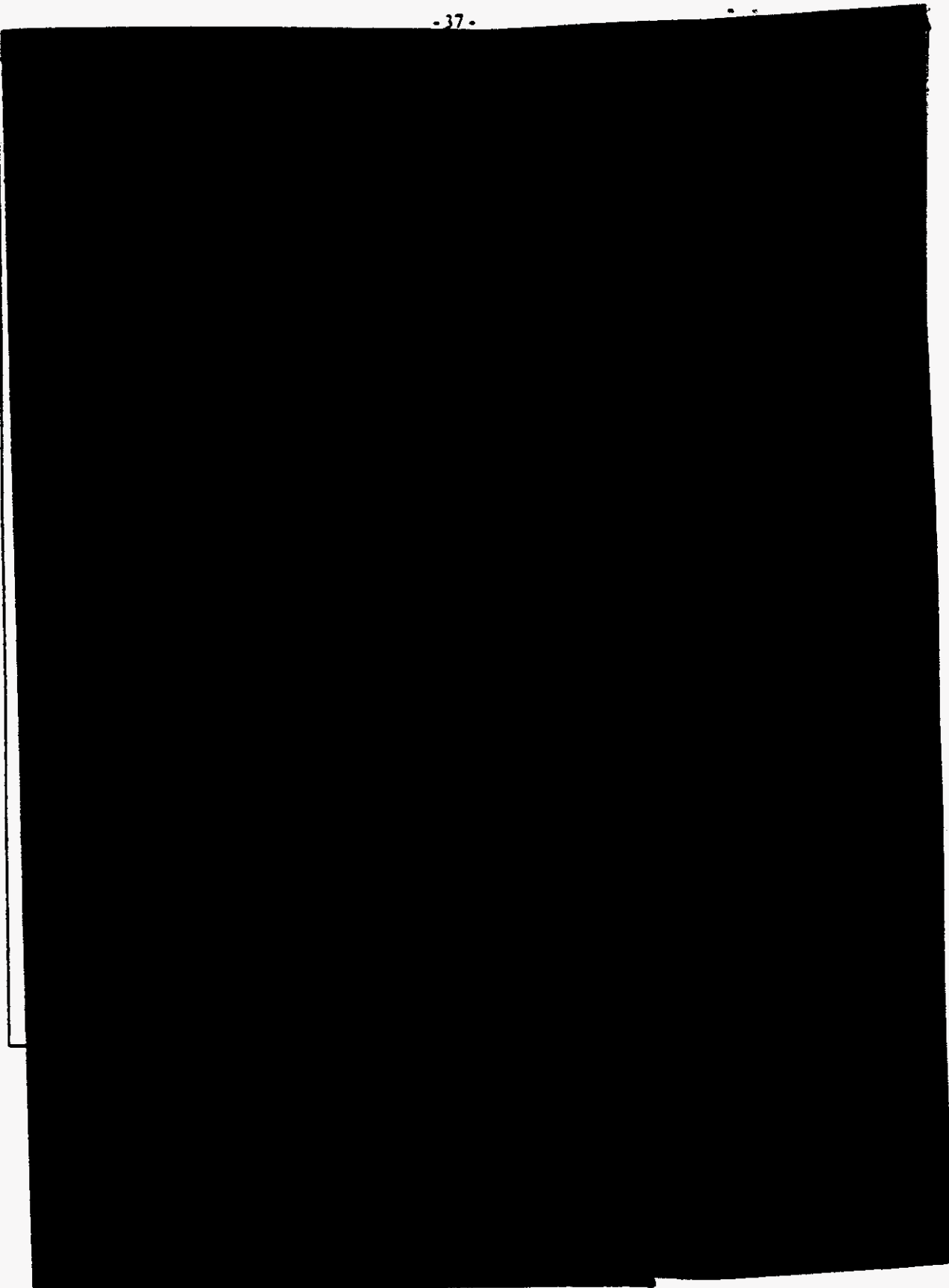
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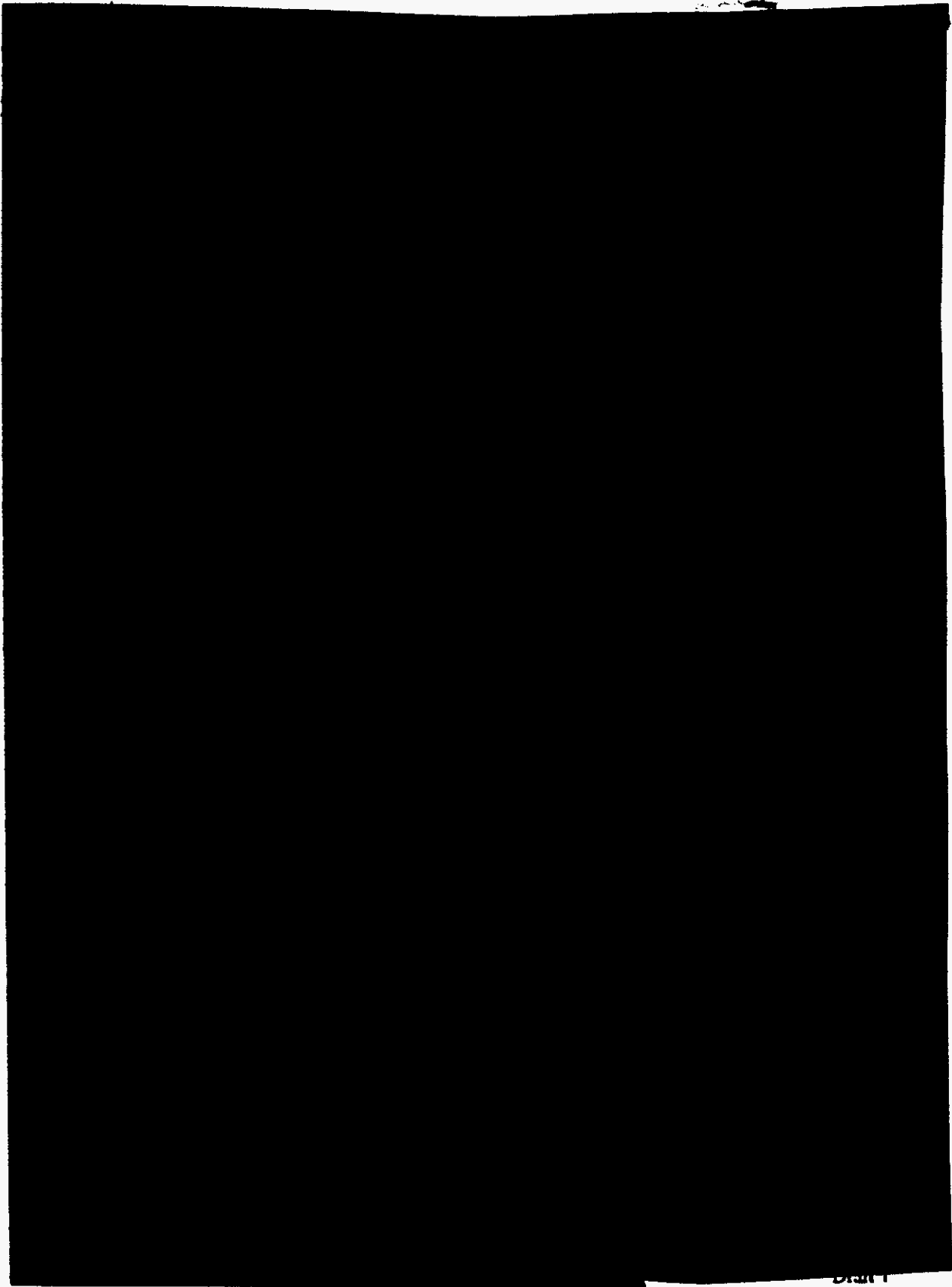
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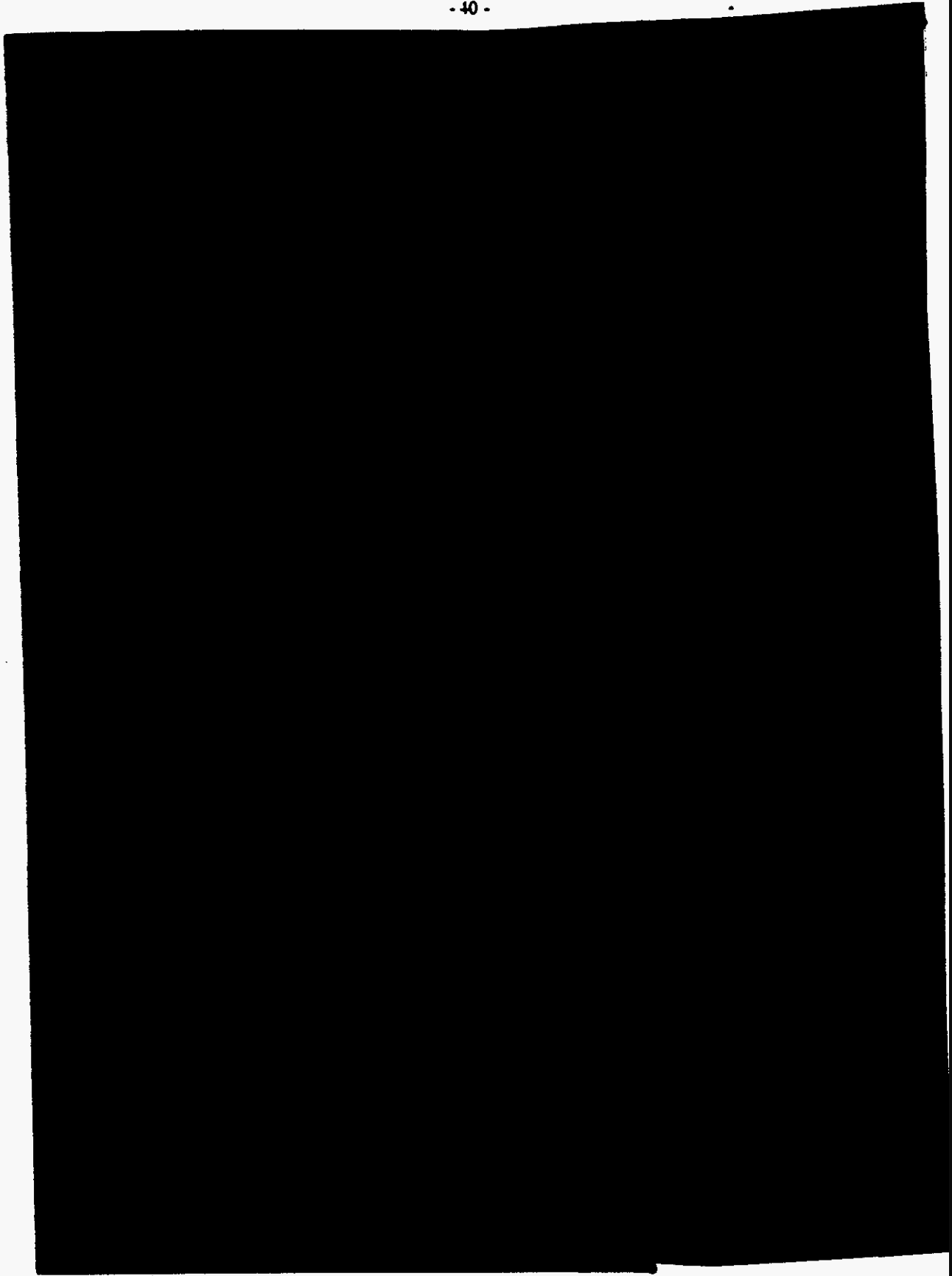
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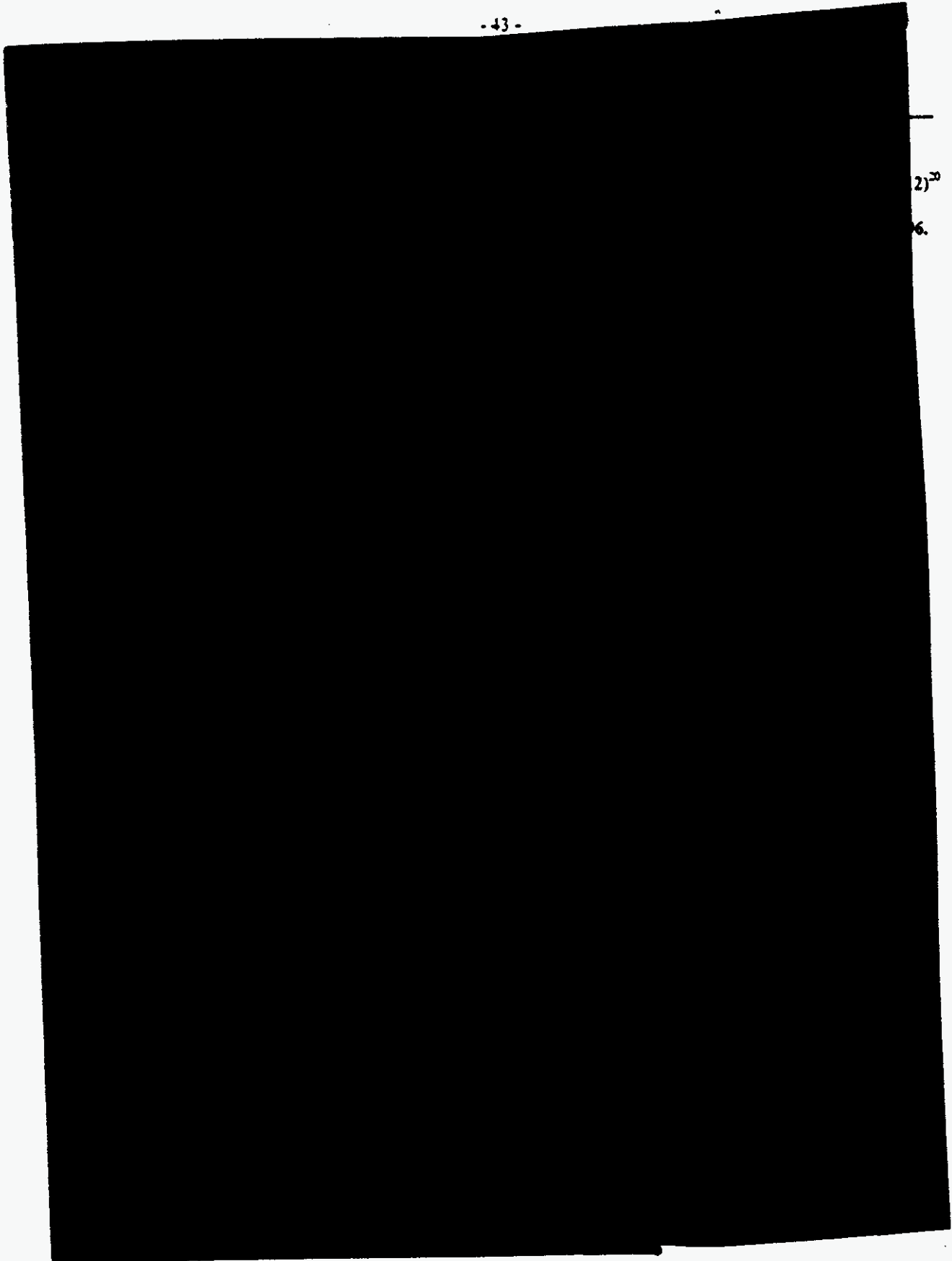
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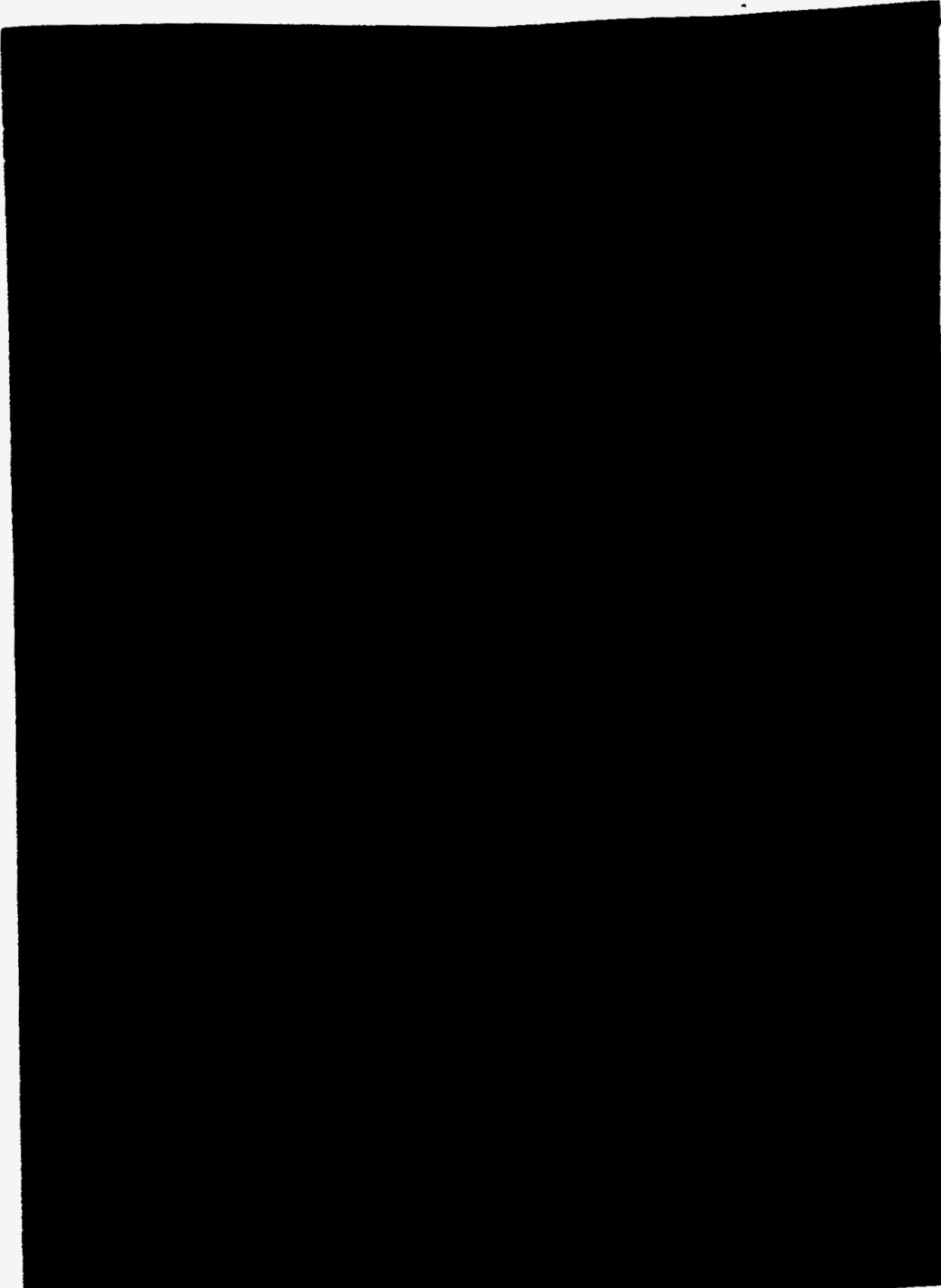
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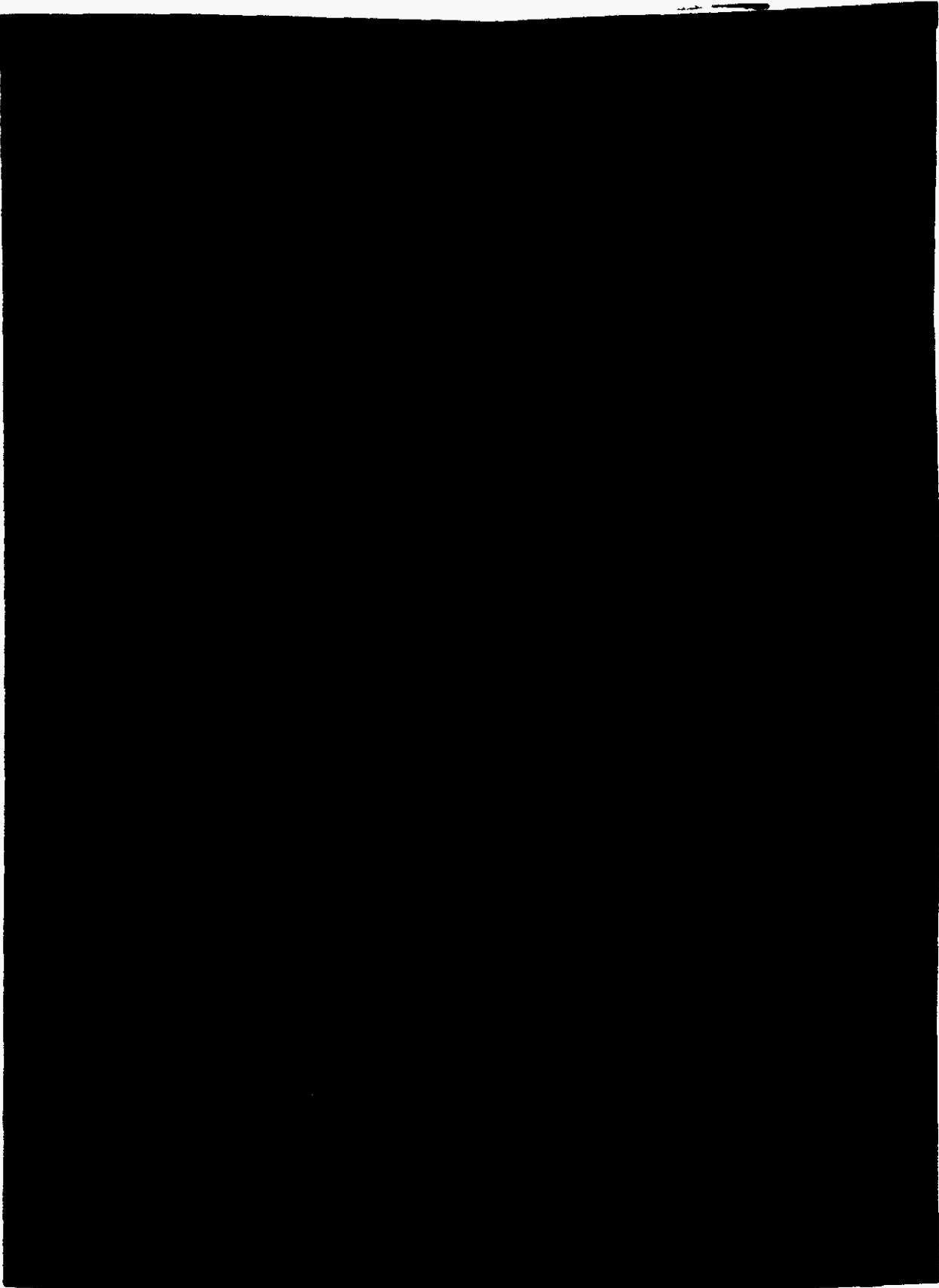
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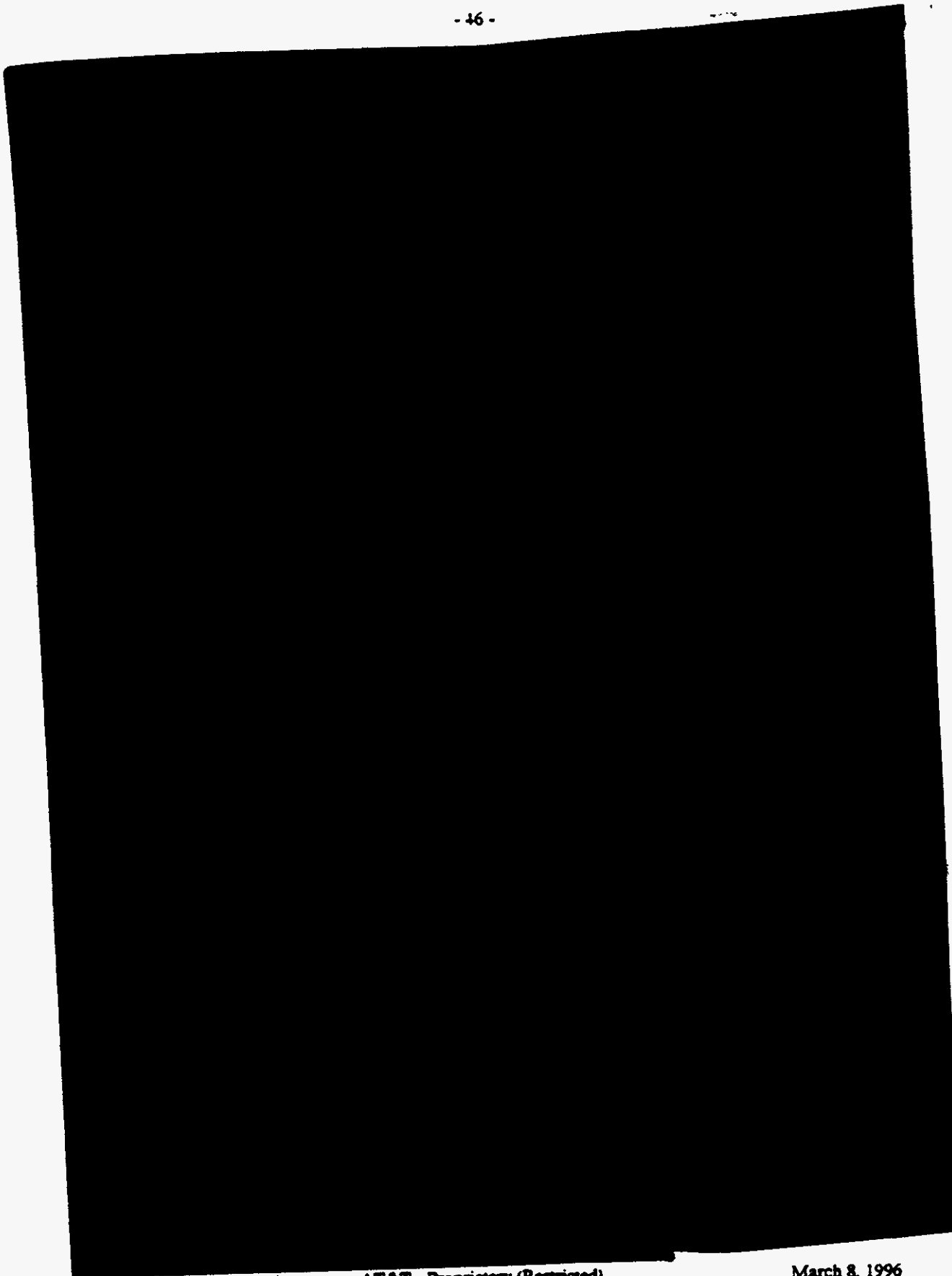
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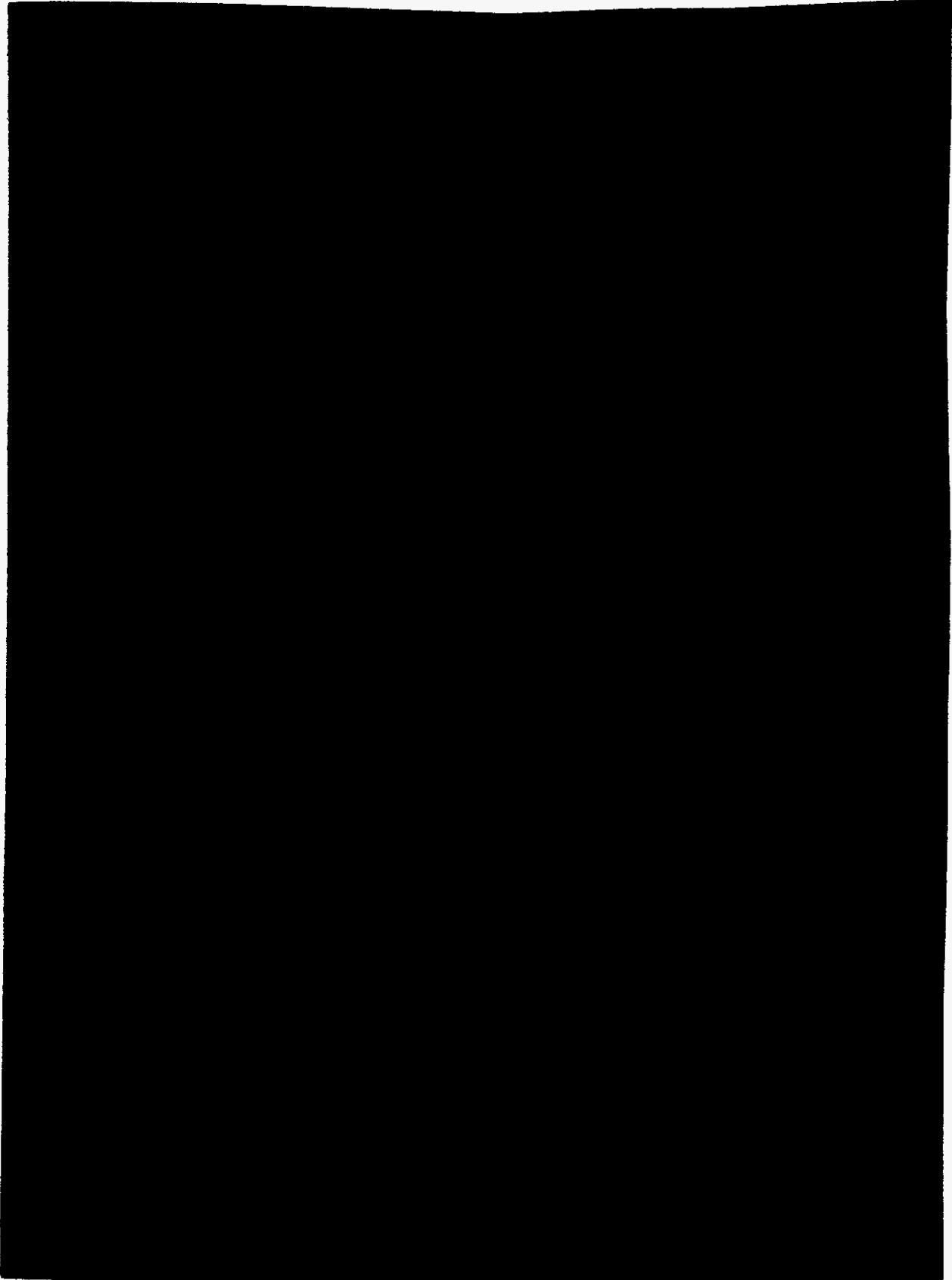
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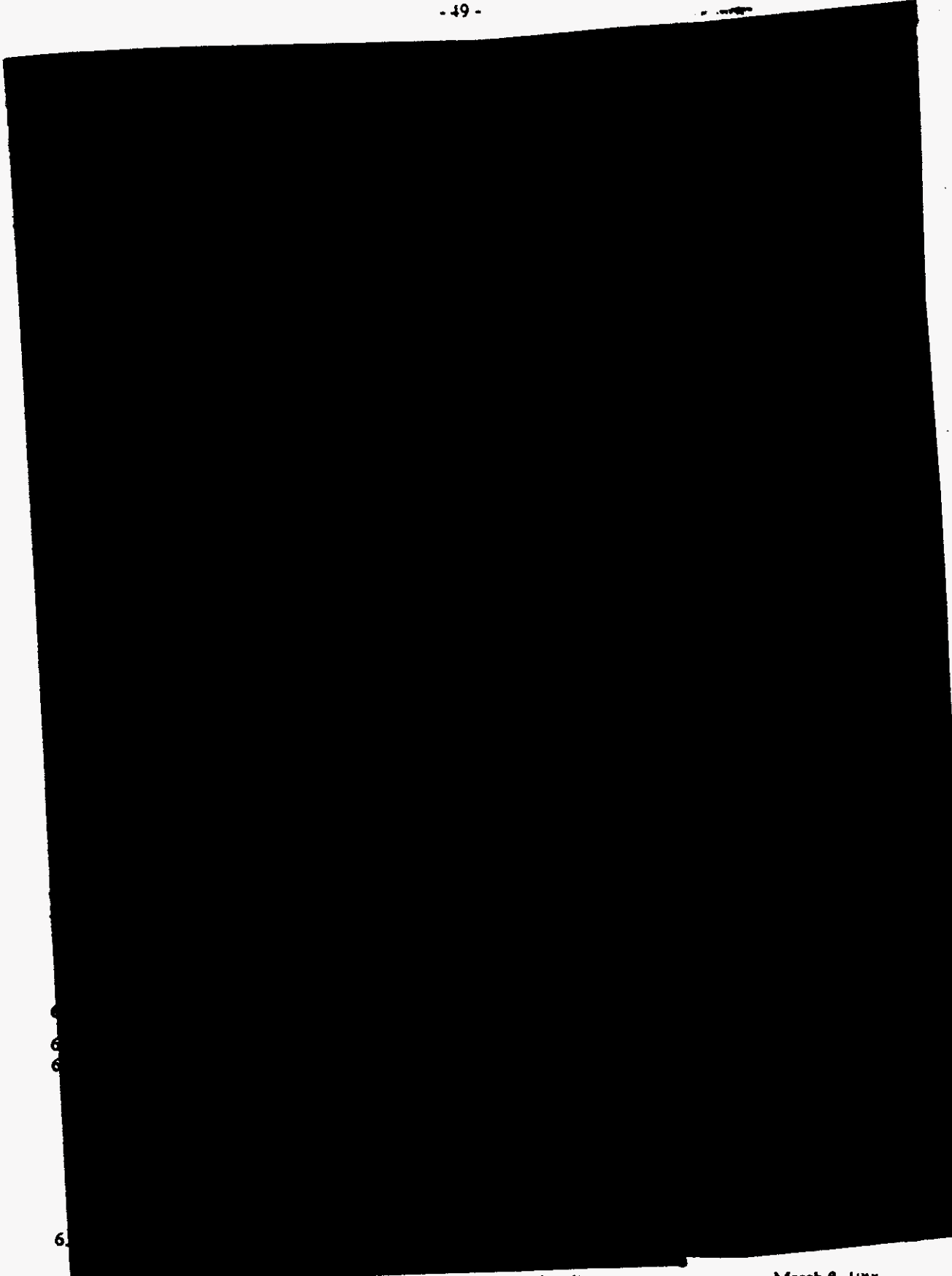
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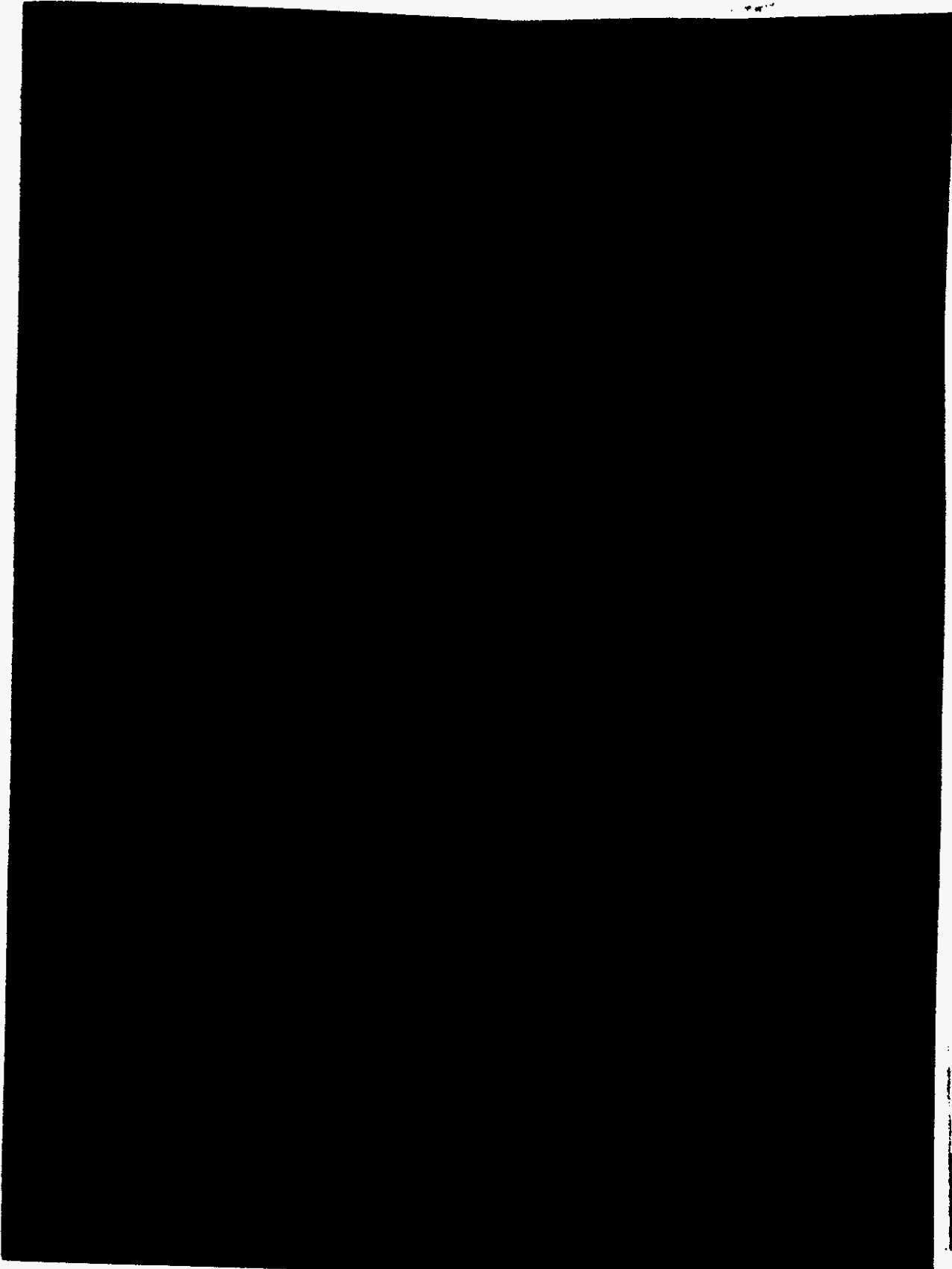
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Local Operator Services

Technical Plan

Issue 1.0 (Approval Copy)

March 28, 1996

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1 1. INTRODUCTION (LCM)

2 This document presents the technical plan for offering local Operator Services (OS) using AT&T's
3 SESS® Operator Services Position System (OSPS) which is currently servicing AT&T's interLATA OS
4 traffic and AT&T-provided OS for Article IV companies¹. AT&T Local residential and business
5 customers dial 0+ 7/10 digits or 0- to obtain service for calling card and local operator services. This
6 service would enable customers to experience the AT&T brand for local Operator Services. The use of the
7 OSPS platform enables the sharing of a common user interface for local and interLATA operator services,
8 and provides the opportunity for synergy in service evolution. Furthermore, the sharing of the platform
9 may result in unit cost advantage.

10 In the current plan, we consider both the LEC Service Resale and basic access arrangement of Loop
11 Resale with the leased loop terminated at the LEC MDF and hand-off to the AT&T local end office.
12 Please refer to Section 1.3 for the scope of this planning effort.

13 1.1 Overview (LCM)

14 AT&T Local customers can reach operator services by dialing with the prefixes: 1+², 0+ (interLATA and
15 intraLATA), 0-, 00-, and 01+³. In the LEC (Local Exchange Carrier) Service Resale⁴ environment, there
16 are two ways to provide operator services. (1) The LEC can provide operator assisted IntraLATA (toll
17 and local) service for AT&T local customers. This is not the preferred AT&T option, and this option is
18 not being addressed by this TP. (2) The LEC can route all AT&T customers' operator services calls
19 (InterLATA and IntraLATA) to an AT&T SESS® OSPS using switch-dependent techniques such as Line
20 Class Codes (described in more details in the "Access Architecture" section of this document). Calls
21 routed to and handled by the SESS® OSPS will be branded AT&T. In the Loop Resale⁵ environment, the
22 AT&T Local End Office⁶ will route the customer-originated requests for interLATA and intraLATA
23 operator services⁷ to an AT&T SESS® OSPS. This TP addresses the case (2) alternative.

24 ¹ Article IV companies are Independent Operating Companies whose local operator service is provided by
25 AT&T on a contractual basis. Input from Dennis Pearson.

26 ² Normally 1+ is used for Hotel / Motel and Coin operator services. It is not being addressed in this
27 document. Refer to Section 2.2.2 "Restrictions and Limitations".

28 ³ A 01+ call must be dialed with a country code (CC) and a national number (NN). A typical operator
29 assisted international dialed number will look like this 01+CC+NN/



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33 or. The operator can assist the customer by offering alternative billing options such
34 as: collect, bill to third, etc. The dialing with prefix 01+ or 011+(for direct dial international calls) are not
35 described in this Technical Plan which is intended to address local operator services only. The handling
36 of these calls should remain unchanged.

37 ⁴ With LEC Service Resale, AT&T local service is provided by the LEC network and AT&T resells LEC
38 service.

39 ⁵ With Loop Resale, the LEC loops will be separated at the Main Distributing Frame (MDF) at the LEC
40 End Office and transported to an AT&T-owned SESS® End Office.

41 ⁶ Local End Office is defined in Section 1.2 "Terminology".

42 ⁷ Assuming that business decision is to offer combined interLATA and intraLATA service. If the offer
43 includes customer selection of interLATA carrier, then the InterLATA operator service may have to be
44 routed to the platform of the PICed carrier of choice if it is not AT&T.

1 The proposed plan focus on the technical feasibility of having the AT&T customers' local OS calls routed
2 by the LEC End Office or AT&T Local End Office to an AT&T 5ESS® OSPS for handling.

3 In the remainder of this document, the focus is on the local OS (e.g., 0+ and 0-) calls. The
4 term "0+ calls" refers to 0+ 7/10 digits for IntraLATA toll and IntraLATA local calls which
5 are currently handled by the LEC by default. The term "0-" referred to operator assistance
6 calls currently handled by the LEC. For customers who are PICed AT&T for InterLATA
7 service, it is implicit that the 0+ InterLATA and the 00- (InterLATA operator assistance)
8 calls are already routed to and handled by the AT&T 5ESS® OSPS and are not discussed in
9 this document.

10 1.2 Purpose (LCM)

11 The purpose of this document is to provide Local Service planners and Product Management with a
12 service architecture plan to implement an AT&T branded local Operator Service (OS). It also provides
13 input for engineering, development, provisioning, operations, testing, and Methods and Procedures
14 (M&P) revisions.

15 This plan:

- 16 1. establishes the synergy between the AT&T interLATA and local OS.
- 17 2. is an alternative to the current Plan of Record of local OS provided by the incumbent Local Exchange
18 Carrier (LEC) for LEC Service Resale.¹
- 19 3. assesses the feasibility of using existing 5ESS® OSPS platform to service local operator service calls
20 as quickly as possible for both Loop and LEC Service Resale environments.
- 21 4. identifies any service feature outage and proposes plan to resolve identified issues.
- 22 5. identifies any development efforts that are required to support items 3 and 4 above, and identifies
23 those effort which are needed prior to initial service.
- 24 6. serves as an interface document with Operator Service Channel Management and basis for the
25 identification of areas that may require new Methods and Procedures (M&Ps) and operator training.
- 26 7. provides Product Management with the data needed to build a business plan.
- 27 8. provides input for engineering, provisioning, development, testing, and call billing.

28 ¹ Current Plan of Record is AT&T-provided local OS for Loop Resale.

1 1.3 Terminology (ALL)

2 The following terms are used throughout the document.

3 *Local Service* - Consists of switch-based features and other services (for example, local Operator Services)
4 which have been traditionally offered by the LEC to residential and business customers. AT&T will offer
5 these features and services to the AT&T residential and business customers via a local tariff filing, as it
6 enters the local market.

7 *Local End Office* - refers to the switch where customer lines terminate. In this document, references are
8 made to the LEC End Office in the LEC Service Resale environment and AT&T Local End Office in the
9 Loop Resale environment.⁹

10 *LEC Service Resale* - Local Service is provided using LEC network services.

11 *Loop Resale* - In this type of architecture, AT&T leases the loop facilities to the end customers home, but
12 purchases and manages its own local end office switch. The strictest definition of the term "loop resale"
13 includes only intraLATA local and intraLATA toll traffic served by an AT&T purchased and managed
14 local end office switch with leased loop facilities to the customer's homes or businesses.¹⁰

15 *IntraLATA call* - A call placed (originating and terminating) within a single LATA. IntraLATA calls
16 fall into two categories: local (non-toll) and toll calls. The local calls are referred to as intraLATA local
17 calls and are those that are placed to (NPA) NXXs in the AT&T customer's local calling area. These
18 calls normally do not incur charges based on the distance of the call or the duration of the call. The toll
19 calls are referred to as intraLATA toll calls and are those calls that are placed to (NPA) NXX's located
20 within the AT&T customer's LATA. These calls incur charges allowed by state tariffs, for both distance
21 and duration.

22 In the remainder of this document, the terms "intraLATA call", "intraLATA toll call", and
23 "intraLATA local call" are used. The term "intraLATA calls" refers to both the "intraLATA local
24 calls" and "intraLATA toll calls".

25 *Operator Services Position System Toll and Assistance (OSPS T&A)* - The *OSPS Toll and Assistance*
26 (*T&A*) application is a major application to the SESS® Switch. OSPS T&A relies on the features and
27 facilities provided by the SESS® Switch in such areas as automatic call distribution, administration,
28 billing, access to external databases, interflow, maintenance, and trunking. However, OSPS T&A is
29 unique because human operators, using Video Display Terminals (VDT) or Operator Work Stations
30 (OWS) and / or Automated Positions using Voice Recognition Call Processing (VRCP) interact directly
31 with the automated aspects of the architecture and the calling customer.

32 *Local Operator Services* - Local operator services describe the type of calls handled by the SESS® OSPS
33 that will be included in the AT&T Local Service offering (as specified by the term "Local" in "Local
34 Operator Services"). These services are accessed via customer originated 0+(intraLATA) calls and 0-
35 calls. These access methods are explained and the available service features are described in section 2.4
36 "Local Operator Service and Call Features".

37 ⁹ The Local End Office is sometimes referred to as the "Local Switch Office (LSO)" in other documents
38 that address Local Service.

39 ¹⁰ T. E. Adams, et. al., Loop Resale Technical Plan, Draft 3.0, December 22, 1996.

1 *IPIC* - a switch feature supported by the LA ESS Switch and the SESS Switch that allows a calling party
2 to presubscribe to a carrier to carry intraLATA toll calls.

3 1.4 Scope (LCM)

4 This document covers the technical planning information for providing local operator services for local
5 residential and business customers who choose AT&T as their local service provider.

- 6 • This plan addresses local operator services which are available to AT&T local customers who dial
7 with a prefix of 0+ (intraLATA) and 0- to reach operator services. It is assumed that customers
8 dialing with prefix of 0+ (interLATA), 00-, and 01+ would work as currently for AT&T-provided
9 interLATA operator services and are not discussed in this document.
- 10 • This plan considers both the LEC Service Resale and basic access arrangement of Loop Resale with
11 the leased loop terminated at the LEC MDF and hand-off to the AT&T local end office. It is
12 recognized, however, that there are other connectivity options to be analyzed on an on-going basis,
13 and there are others to be considered as viable options as soon as the technology becomes mature. As
14 is needed, this document will be updated in the future to address other Loop Resale access
15 environment.
- 16 • BCS access options being considered currently for Loop Resale affect the access arrangement from
17 the Customer Premise Equipment to the end office switch, but will be compatible
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- 27 • Dial-around using one of the 3- or 4-digit CIC codes (for example, 0288 as in 10288) to reach AT&T
28 operator services is not addressed in this document because the 3- or 4-digit CIC code directs caller to
29 an interexchange carrier.

30 1.5 Guide to the Document (LCM)

31 This Technical Plan proposes method for routing the 0+/0- calls from the LEC End Office or AT&T Local
32 End Office to the AT&T SESS® OSPS, and evaluates applicable local operator service call flows to
33 determine if the existing SESS® OSPS is able to handle local OS calls and to identify any impacts and
34 enhancements required to support local operator services.

35 This Technical Plan contains the following sections:

- 36 1. INTRODUCTION section provides a brief description of the planning effort, the purpose, the scope,
37 and the structure of the document.

38 ¹¹ Data provided by M. S. Huq, S. Ganesan, P. Zahray. (Also refer to Loop Resale Technical Plan, T. E.
39 Adams (Coordinator), Issue 3.0, December 21, 1995.

- 1 2. SERVICE DESCRIPTION section provides a definition of the local OS service, service assumptions,
2 call volume assumptions, target market, as well as any restrictions and limitations of the proposed
3 service. High-level descriptions of the various operator services call types are also provided.
- 4 3. HIGH-LEVEL ARCHITECTURE DESCRIPTION section provides an overview of the selected
5 architecture.
- 6 4. TECHNICAL DESCRIPTION section provides the technical description of the access architecture
7 and call flows. For each call type, there are two sub-sections titled "Local Call Flow" and "Local
8 Service Impacts". The "Local Call Flow" sub-section describes the call flow for Local Service
9 offering of the specific call type. The "Local Service Impacts" sub-section summarizes any changes
10 or needs specific to Local Service as is reflected in the call flow, as well as additional issues or
11 supports required from the Local Service perspective.
- 12 The Local Service impacts identified for each call type are summarized in the SUMMARY IMPACTS
13 ASSESSMENT section.
- 14 5. RECORDING / BILLING section provides a description of the recording and billing impacts.
- 15 6. FEATURE INTERACTIONS section describes interactions with other features.
- 16 7. PERFORMANCE section describes any performance impacts.
- 17 8. SESS® OSPS OPERATIONS section lists some high-level service operations impacts and refer to an
18 Operations Technical Plan for detailed service operations strategy.
- 19 9. LOCAL TARIFF DATA section describes other support services that may be impacted.
- 20 10. SUMMARY IMPACTS ASSESSMENT section provides an assessment summary of efforts needed
21 to routing local Operator Service traffic to the AT&T SESS® OSPS platform for handling.
- 22 11. BUSINESS AND REGULATORY ISSUES section provides some business and regulatory issues as
23 well as some negotiation perspectives.
- 24 12. FUTURE WORK section considers the next-steps.
- 25 13. ISSUES section provides a list of issues / action items that have been identified. Most of the issues
26 are expected to be resolved. A few others may remain as suggestions for future implementation.
- 27 14. REFERENCES section lists documents referenced.
- 28 15. GLOSSARY section lists acronyms and abbreviations.

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2. SERVICE DESCRIPTION

2.1 Service Definition (LCM)

This document addresses an AT&T branded local Operator Services (OS)¹² that would allow AT&T Local Service customers to dial 0+ (intraLATA) / 0- to access either the AT&T automated Operator Services and / or a live operator for calling card and other local operator services. In addition, SESS® OSPS Toll and Assistance (T&A) can handle other calls that involve special types of services including Busy Line Verification/Emergency Interrupt (BLV/EN), Emergency Agency Call, and Operator-assisted Directory Assistance.



2.2 Assumptions (LCM)

2.2.1 Service Assumptions

The following assumptions were made:

1. Dial access for AT&T's local OS service will match that of the incumbent LEC traditional "0+/0-" service.
2. AT&T will provide local OS service for both LEC Service Resale and Loop Resale Local Service architectures.
3. SESS® OSPS will have the ability to distinguish intraLATA calls from interLATA calls.
4. Access to the AT&T SESS® OSPS is from the LEC end office in the LEC Service Resale environment, and AT&T end office switch for Loop Resale.
5. FG-C address signaling must be in the MFJ Operator Services Expanded Signaling format.
6. (a) Wink signaling can be Inband (IB), Expanded Inband (EIS), or Multiwink (MW).
(b) OSPS will determine the originating NPA from the incoming trunk group.
(c) Require ANI-II digit.
7. Emergency calls (0-) and Emergency tracing are supported.



12. Also refer to "Restrictions and Limitations" section below for call types not to be supported based on input from Product Management.

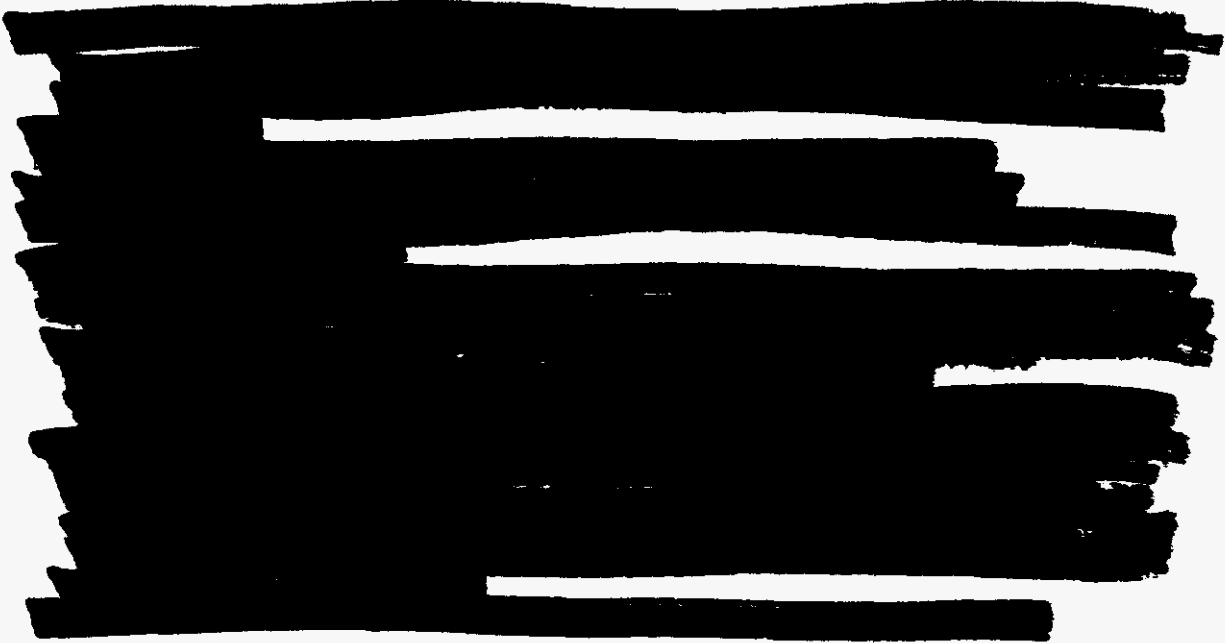
L. Connelly, "Local Operator Service Market Service Description" (Draft), 3/26/96.

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3/28/96
Issue 1.0 Approval Copy

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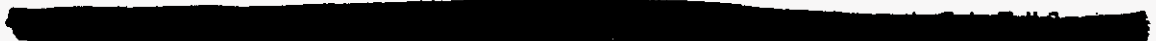
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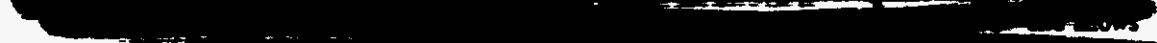
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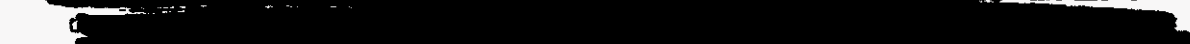
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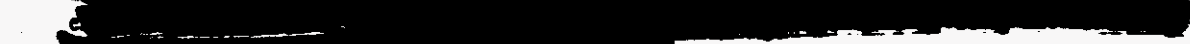
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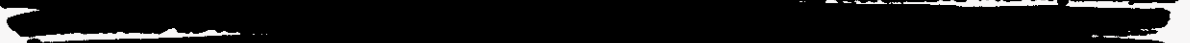
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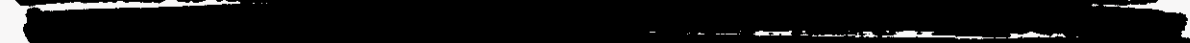
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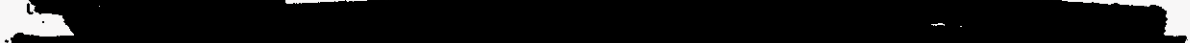
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This document will not address LEC Resale scenarios with 0+ intraLATA and 0- calls provided by the LEC.

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2.4 Target Market (LCM)

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The target market for local OS is the AT&T residential and business customers who dial "0+" or "0-" to request calling card service for intraLATA calls and local operator services in both the LEC Service Resale and Loop Resale environment.

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[REDACTED]

1 **2.5 Local Operator Service and Call Types (TAD, LCM)**

2 **2.5.1 Customer Access to Local Operator Services**

3 The call types that will be handled by AT&T operators are those which are dialed with the following
4 prefixes: 0+, 0-, 00-, and 01+. This document addresses local operator services available to customers
5 when dialing with prefixes of 0+(intraLATA) and 0- (refer to preceding "Scope" section and footnote on
6 1+ and 01+ prefixes in the earlier "Overview" section for more details).

7 **2.5.1.1 0+ (intraLATA) Calls**

8 A 0+ dialed domestic call can be dialed 0+ 7/10 digits.^{17 18} [REDACTED]
9 [REDACTED] the caller can enter
10 their AT&T honored calling card or elect to bail out [REDACTED]
11 [REDACTED] If the customer enters a calling card number, the call will proceed in the
12 normal manner. [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]

16 **2.5.1.2 0- Call**

17 A 0- call is a call that reaches an AT&T operator on a seizure only basis. The 0- call is dialed to obtain
18 operator assistance in setting up a call, or for other assistance which may or may not be directly related to
19 a particular call. For the 0- call, the AT&T operator obtains the forward number / called number since it
20 has not been dialed by the customer.
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]

25 ¹⁷ 0+ calls can reach AT&T from an access line presubscribed to another IC/XC if prefixed with an
26 AT&T access code 10XXX (for example, 102880 or 10102880).

27 ¹⁸ Interchangeable NPAs within the future will do away with 7-digit dialing.
28 [REDACTED]
29 [REDACTED]
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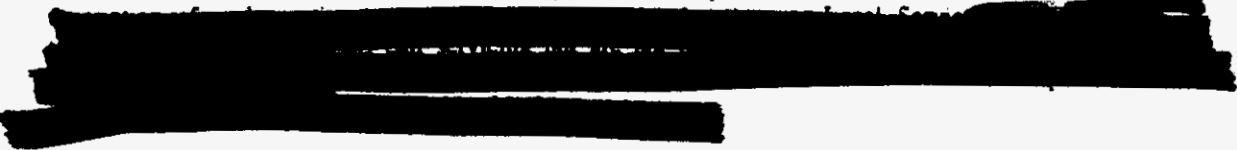


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2.5.2 Local Operator Services Features

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The following operator services calls²⁰, available to customers when dialing with prefixes of 0+(intraLATA) and 0-, have been assessed by the Local Operator Service Technical team.



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In addition, there are other calls that involve special types of services, i.e., Busy Line Verification / Emergency Interrupt (also known as Busy Line Interrupt) (BLV/EI)²¹, Emergency Agency Calls, Emergency Trace, and Operator Transfer Service. These calls are described in the following subsections of this section.

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2.5.2.1 Automated Calling Card Service

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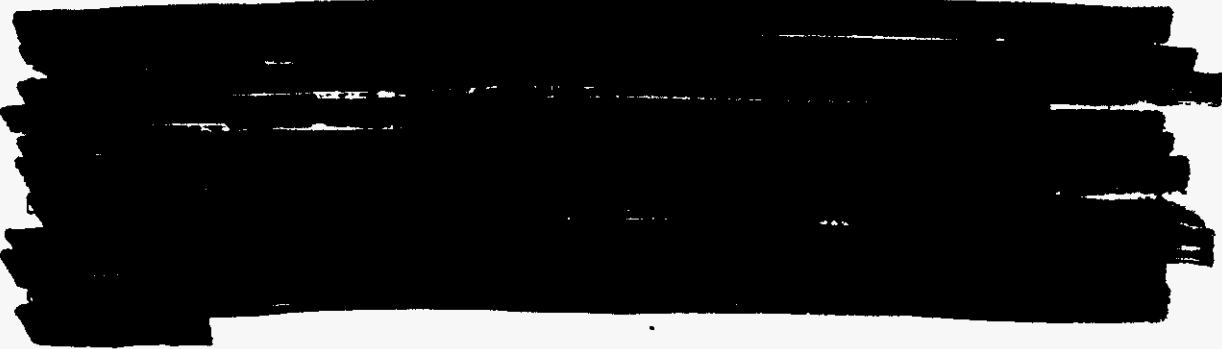


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1 **2.5.2.2 Automatic Sequence Calling**

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13 **2.5.2.3 Automated Sequence Dialing, Following Operator Release**

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19 **2.5.2.4 Person-to-Person Call**

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23 **2.5.2.5 Station-to-Station Call**

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26 **2.5.2.6 Collect Call**

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2.5.2.7 Bill-to-Third Call

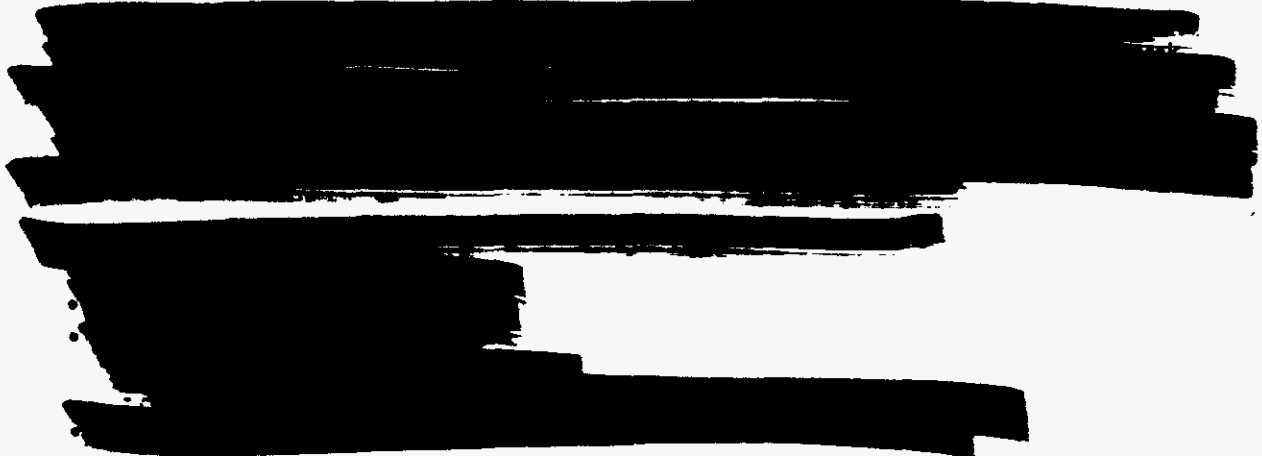
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2.5.2.8 Operator Assisted or APS Calling Card Service

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2.5.2.9 Busy Line Verify/Emergency Interrupt

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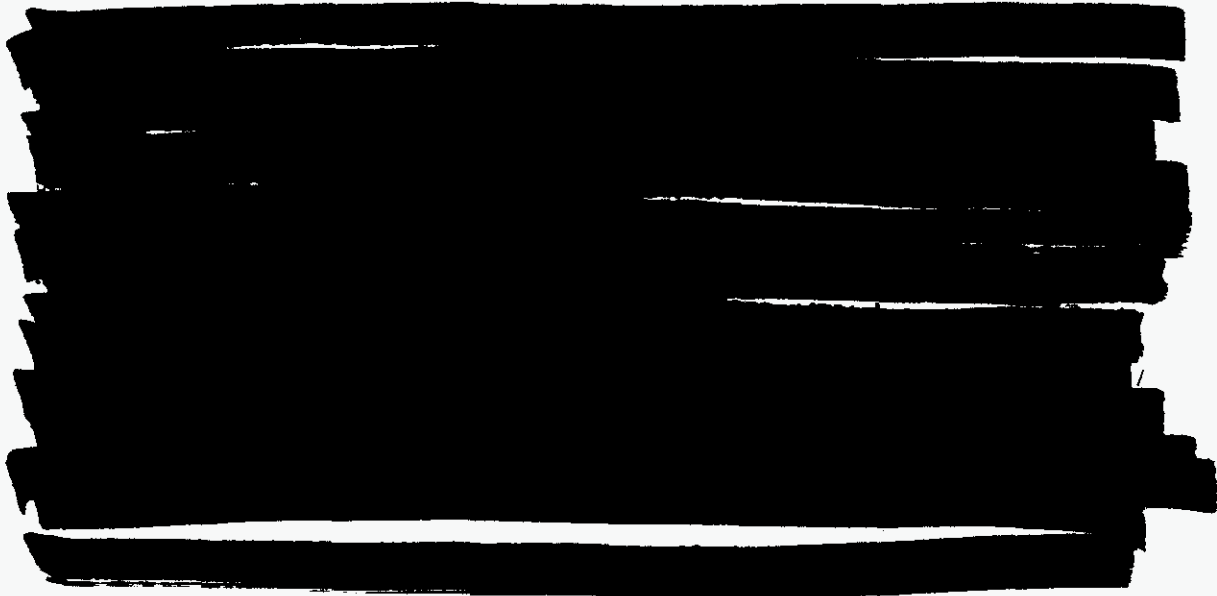
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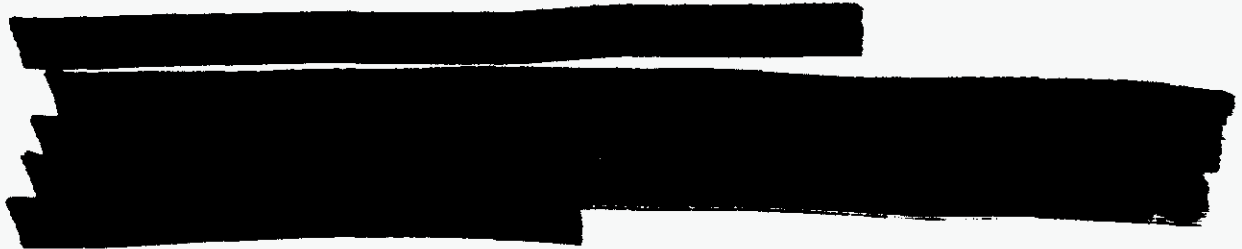
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2.5.2.14 Time and Charges

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Time and Charges (T&C) is a service where an AT&T operator provides a verbal quotation of the elapsed time and associated charges for a call. The AT&T operator must request the customer to stay on the line after the call. The AT&T operator performs a specific key action to record the request. At the conclusion of the call, OSPS notifies an AT&T operator, not necessarily the original operator, of the time and charges for the call. The AT&T operator reports the time and charges to the calling party, called party, or the third party as requested.

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2.5.2.15 Rate Quote

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The Rate Quote feature allows the AT&T operator to answer callers' questions regarding the charges that they are billed for a specific call type at a specific time.

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3. HIGH-LEVEL ARCHITECTURE DESCRIPTION (LCM)

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The AT&T 5ESS® OSPS is used to service the local operator and calling card traffic.

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When AT&T Local Service is offered via LEC Service Resale, the LEC End Office will route the local operator services (OS) requests of AT&T customers to an AT&T 5ESS® OSPS. (Additional details provided in the "Access Architecture" sub-section of the "TECHNICAL DESCRIPTION" section.)

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When AT&T Local Service is offered via Loop Resale (i.e. the facility build scenario), LEC loops will be separated at the Main Distributing Frame (MDF) at the LEC End Office and transported to AT&T's Local End Office (5ESS®). The 5ESS® End Office will route the local operator traffic to an AT&T 5ESS® OSPS. (Additional details provided in the "Access Architecture" sub-section of the "TECHNICAL DESCRIPTION" section.)

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When AT&T Local Service is offered via the End Office of a CAP (Competitive Access Provider), local operator traffic is also routed to the AT&T 5ESS® OSPS.

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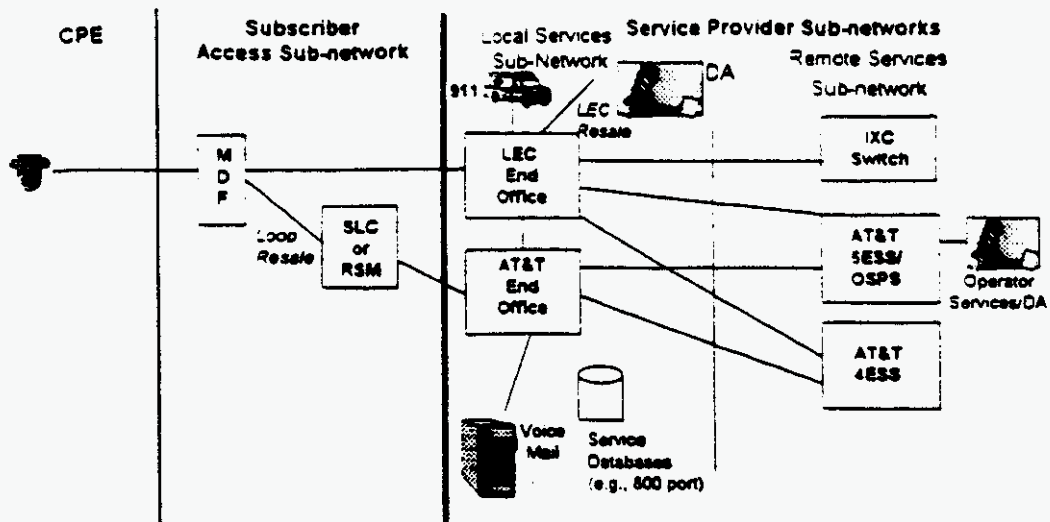


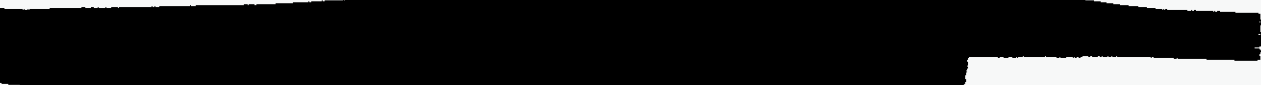
Figure 1 - End-to-End Telephone Architecture

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Local operator services will be provided by an existing AT&T 5ESS® OSPS presently handling AT&T interLATA consumer originated traffic in a designated geographic area. All customer traffic originating from an AT&T Local End Office will have their automatic call processing handled by the serving 5ESS® OSPS or will be interflowed to one of the Mega-system OSPSs for operator intervention. Billing and call completion will still be handled by the serving 5ESS® OSPS. Presently, AT&T is employing a Mega-system network utilizing the OSPS interflow feature capability (refer to FEATURE INTERACTION section for additional details).

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4. TECHNICAL DESCRIPTION

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4.1 Access Architecture (LCM)

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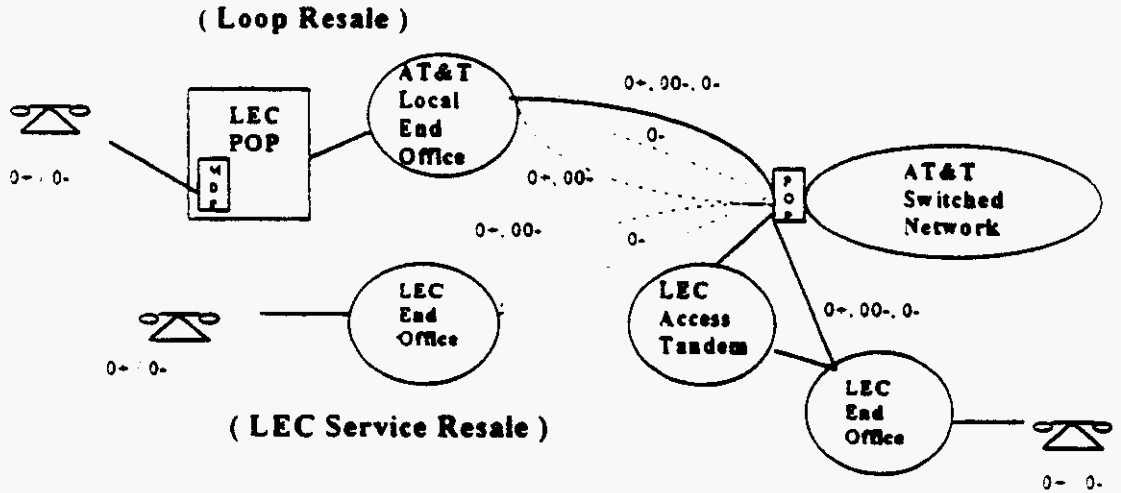
This Technical Plan considers the offering of local Operator Services (OS) in both the *Loop Resale* and *LEC Service Resale* environment. There is a specific access arrangement required by each of the two environment in bringing the local OS calls from the LEC End Office in LEC Service Resale and AT&T Local End Office in *Loop Resale*) to the AT&T 5ESS® OSPS. The access architecture for each of the two scenarios are summarized here. The rest of the local OS architecture and call flows (see "Call Flows" section) are identical for both cases.

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In the *Loop Resale* environment, connectivity from the customer premise to the AT&T Local End Office is provided through the loop leased from the incumbent LEC to the AT&T Local End Office. The leased loop terminates at the LEC's MDF (Main Distributing Frame) and is handed off to AT&T transport equipment to the AT&T Local End Office. In the *LEC Service Resale* environment, POTS service is provided on leased LEC facility. See Figure 2 below. In the *Loop Resale* environment, the 5ESS® switch is used as the AT&T Local End Office. AT&T customers dial 0+0- calls to obtain local operator and calling card services.

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Local OS Calls Access Architecture



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Figure 2: Local OS Calls Access Architecture

(The dash lines show trunking arrangement if 0- traffic is routed via separate trunk group. Current view is to route 0+, 00-, and 0- via same trunk group.)

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In the *LEC Service Resale* environment, the LEC End Office may be an AT&T 5ESS® switch, an AT&T 1A ESST™ switch, AT&T No. 5 Crossbar switch, or other vendor switches. AT&T customers dial 0+/0- to obtain local operator and calling card services. The provisioning of a new class of service (e.g. a new line class code - rate center (LCC-RAX) for the 5ESS® OSPS or an equivalent scheme for other switches) may be used to separate AT&T customers and route their OS calls to the AT&T 5ESS® OSPS platform. One or more line class code - rate centers (LCC-RAXs) must be created for use in provisioning AT&T local customers whose line terminates at the LEC end-office switch. The LCC-RAX combinations specifying the allowable line characteristics combinations to support service offerings to AT&T local customers at the 5ESS® end office. Each of the AT&T LCC-RAXs is set up to enable proper routing of the customer-dialed OS calls to the AT&T 5ESS® OSPS. The set of AT&T LCC-RAXs is defined on each end-office switch with AT&T local customer line terminations. Each AT&T customer is assigned only one of the LCC-RAXs.



1 In the future, *LEC Service Resale* can be easier if regulatory ruling is in place to require incumbent LECs
2 to unbundle services such as local operator service, or to implement the capability for customer to specify
3 a local service provider.

4 This access architecture has synergy with CAT (Consolidated Access Traffic) as a longer term Access
5 Architecture with some issues to resolve (refer to section 6.6).

6 **4.1.1 LEC Service Resale Access Architecture (LCM)**

7 The following information is an assessment of the feasibility for routing 0+ (intraLATA) and 0- calls from
8 AT&T local customer lines to an AT&T 5ESS® OSPS to service operator-assisted calls in the LEC
9 Service Resale environment.

10 In this section, "AT&T local customer lines" refer to those lines at the LEC End Office when the
11 subscribers have become AT&T customers in the LEC Service Resale environment.

12 **4.1.1.1 Routing of AT&T 0+ (IntraLATA) and 0- Traffic to the AT&T OSPS**

13 To route the local Operator Services traffic to the AT&T 5ESS® OSPS in the LEC Service Resale
14 environment, the LEC end office must have the ability to distinguish between AT&T and LEC customer
15 lines, and to route the calls to the AT&T 5ESS® OSPS. In the following sections, the AT&T switches are
16 examined to assess the feasibility.

17 **4.1.1.1.1 5ESS® End-Office Switch**

18 AT&T local customer lines will be provisioned with a unique Line Class Code, unique Screening Code
19 (SC), and Digit Analysis Selector (DAS). This provisioning serves the purpose of separating the AT&T
20 local "0+" and "0-" traffic from the LECs. For local "0+" calls, a unique Route Index is provided to route
21 via a dedicated AT&T OSPS trunk group with EIS (Extended Inband Signaling) signaling to a specified
22 AT&T 5ESS® OSPS. For "0-" calls, a unique Route Index is provided to route via an AT&T OSPS trunk
23 group dedicated to "0-" calls, and with EIS signaling, to the AT&T 5ESS® OSPS. The non-AT&T lines
24 are not affected.

25 **4.1.1.1.2 1A ESS™ End-Office Switch**

26 For AT&T 1A ESS™, Line Class Code will NOT be used. AT&T local lines will be provisioned with a
27 unique Chart in the Chart Class Column translator. This provisioning serves the purpose of separating
28 the AT&T local "0+" and "0-" traffic from the LECs. For local "0+" calls, a unique Traffic Service
29 Position route index is used to access the unique AT&T 0+ trunk group. For "0-" calls, a Special Route
30 Index is used to access the unique AT&T 0- trunk group.

31 **4.1.1.1.3 No. 5 Crossbar Switch**

32 For the AT&T No. 5 Crossbar switch, Line Class Code will NOT be used. Instead, a new Class of
33 Service, with special routing information to route the "0+" and "0-" calls to an AT&T 5ESS® OSPS, can
34 be defined for a Vertical Group. AT&T customer lines can be assigned to the Vertical Group for the
35 special class of service.

1 4.1.1.1.4 Other Vendor End-Office Switch

2 For other vendor switches, similar capability to the above SESS® and / or IA ESST™ are believed to exist
3 since all switches do have such screening and routing capabilities. The terminology may differ, however.

4 4.1.1.1.5 Recording Option Setting

5 The option of "no AMA record" on the LEC switch should be selected so recording is done at the SESS®
6 OSPS. This would imply the LEC and AT&T would have to negotiate some charging arrangement since
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9 **4.1.1.2 Class of Service Provisioning and Administration**

10 4.1.1.2.1 Defining a New Class of Service

11 One or more line class code - rate centers (LCC-RAXs) must be defined (as described in the preceding
12 section) for use in provisioning AT&T local customers whose line terminates at the LEC end-office
13 switch. The new class of services are one or more line class code - rate center (LCC-RAX) combinations
14 specifying the allowable line characteristics combinations to support service offerings to AT&T local
15 customers at the SESS® end office. Each of the AT&T LCC-RAXs is set up to enable proper routing of
16 the customer dialed OS calls to the AT&T SESS® OSPS. The set of AT&T LCC-RAXs is defined on each
17 end-office switch with AT&T local customer line terminations. Each AT&T customer is assigned one of
18 the LCC-RAXs.

19 4.1.1.2.2 Provisioning

20 When a customer is provisioned for AT&T local service, the customer line must be provisioned with the
21 AT&T class of service code to enable the proper switch screening and routing of AT&T local "0+" and "0-"
22 traffic to AT&T SESS® OSPS.

23 4.1.1.2.3 Administration

24 An important factor in the Administration of the new class of service is that the LEC has correctly
25 provisioned the customer with one of the AT&T class of service codes. To the LECs, this represents an
26 additional step in their OAM&P process.

27 When a customer terminates local service subscription with AT&T, the line must be provisioned to
28 disable the switch screening and routing previously provisioned to route AT&T local "0+" and "0-" traffic
29 to AT&T SESS® OSPS. This can be accomplished through service order provisioning.

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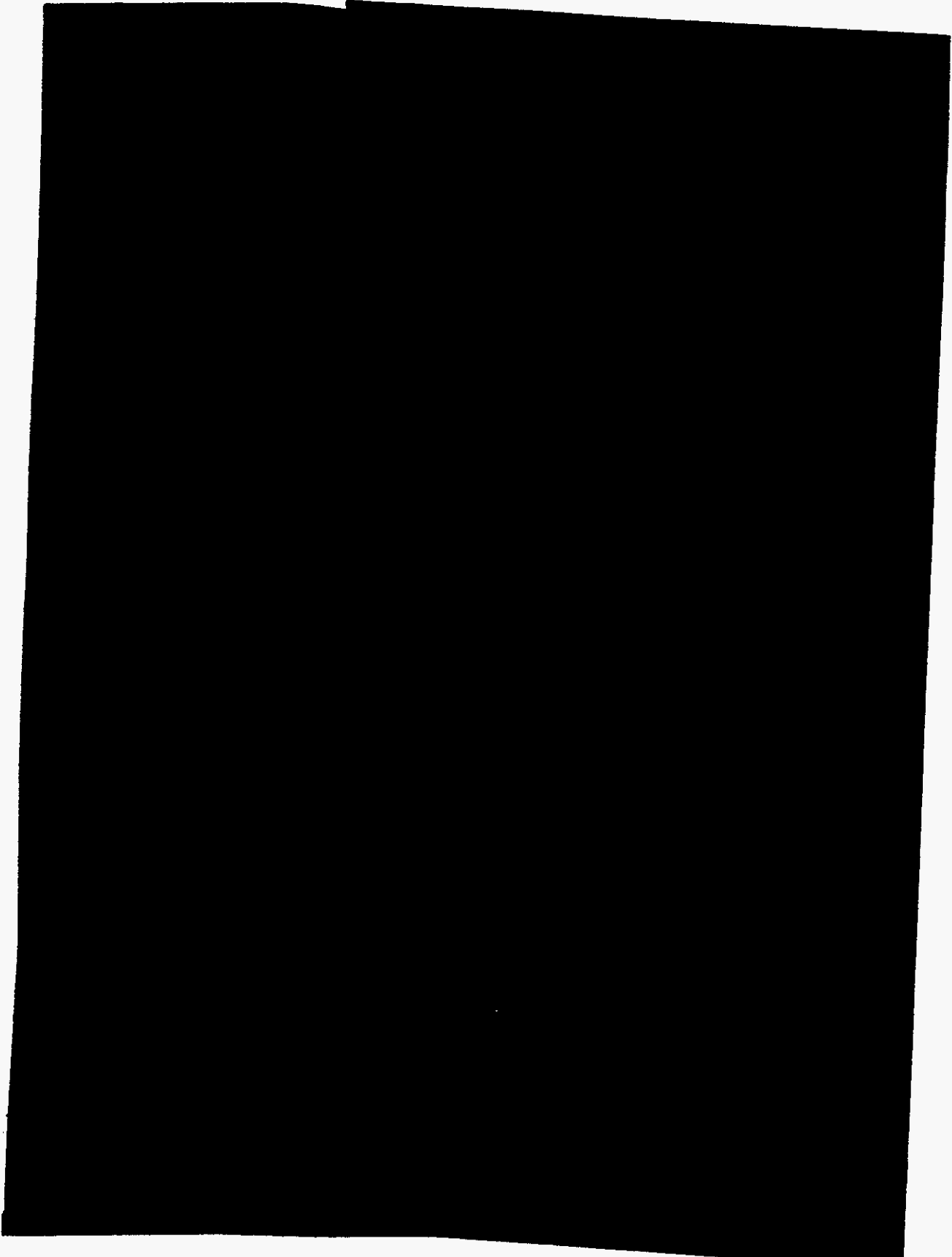
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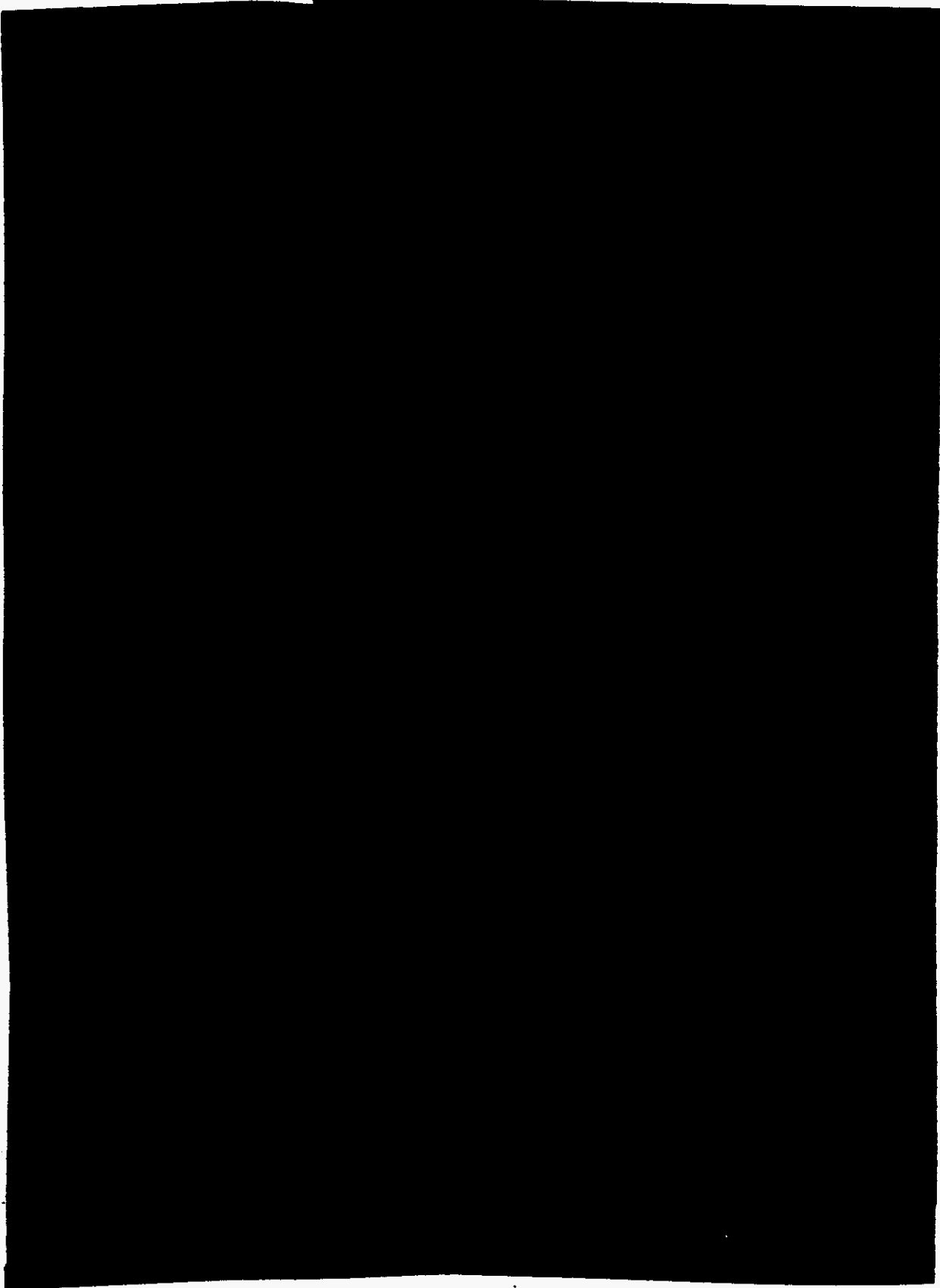
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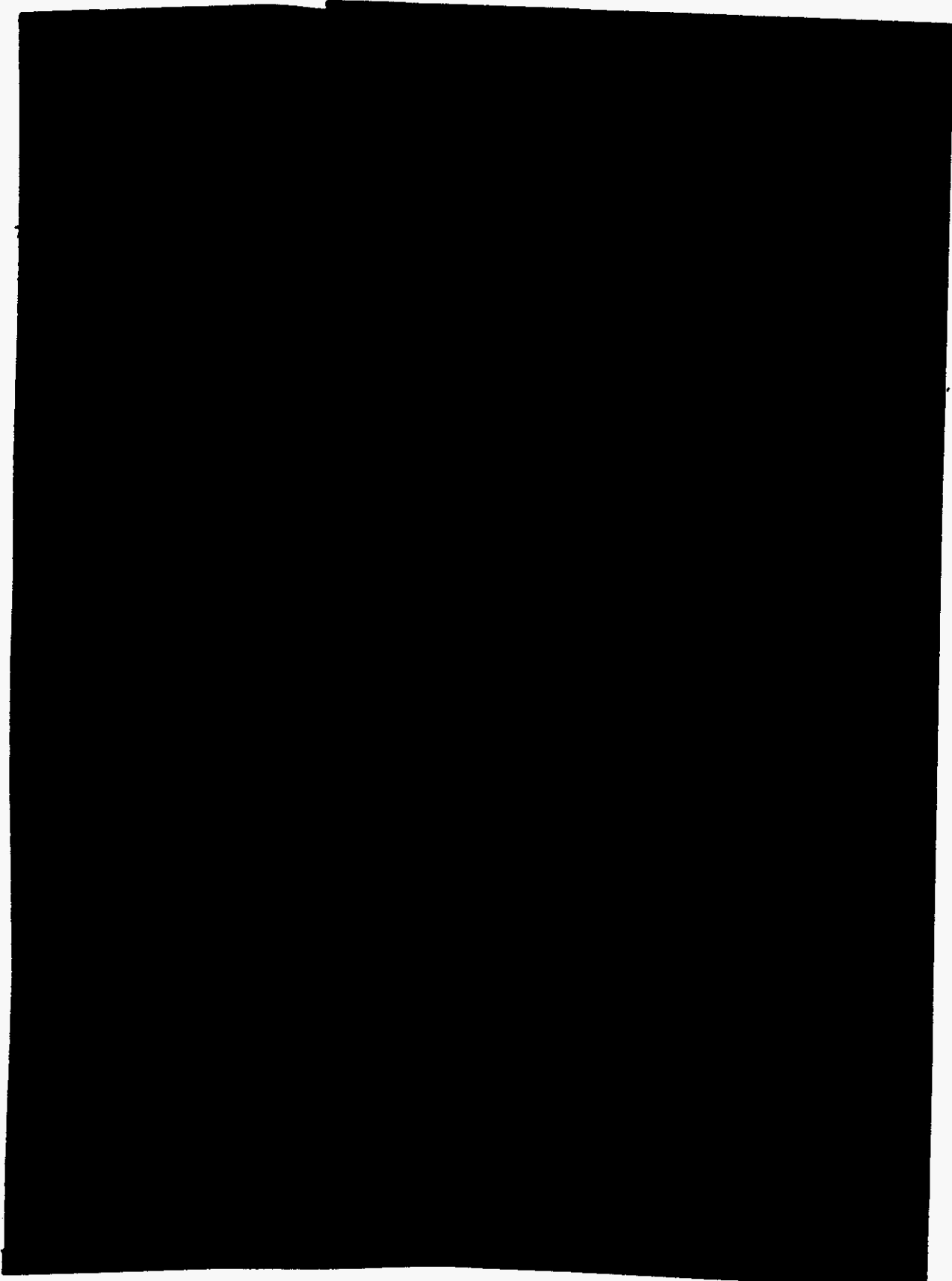
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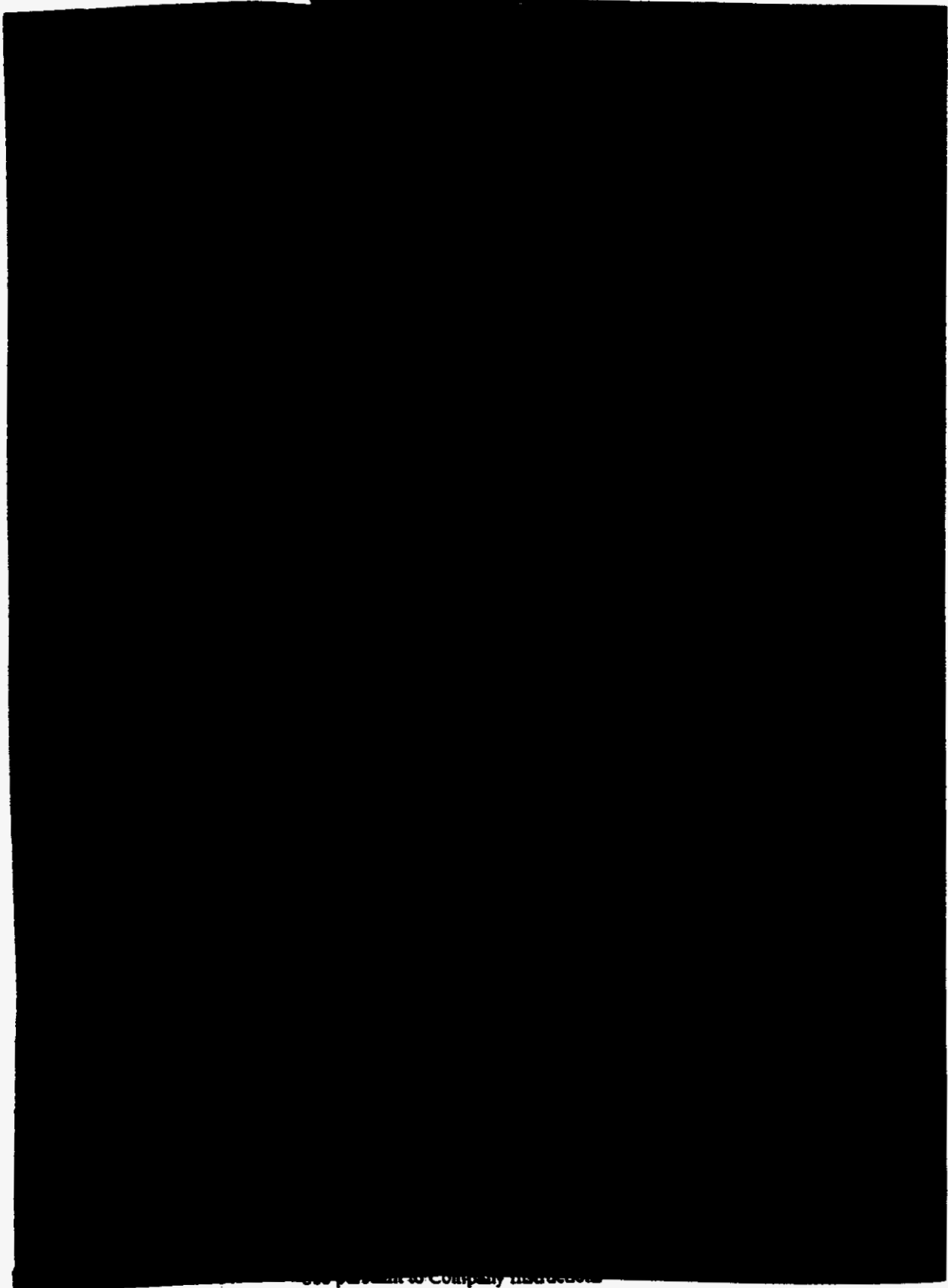
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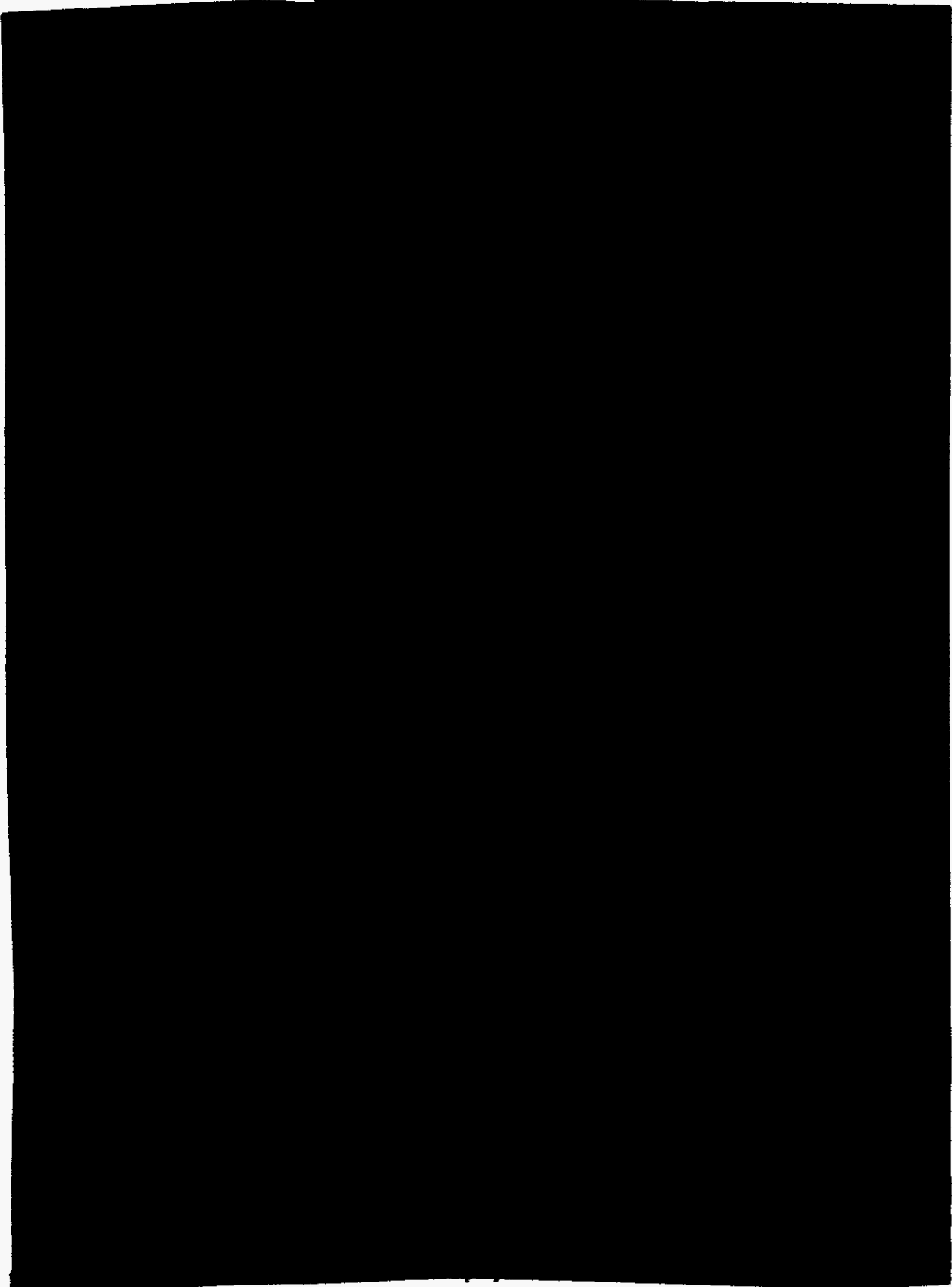
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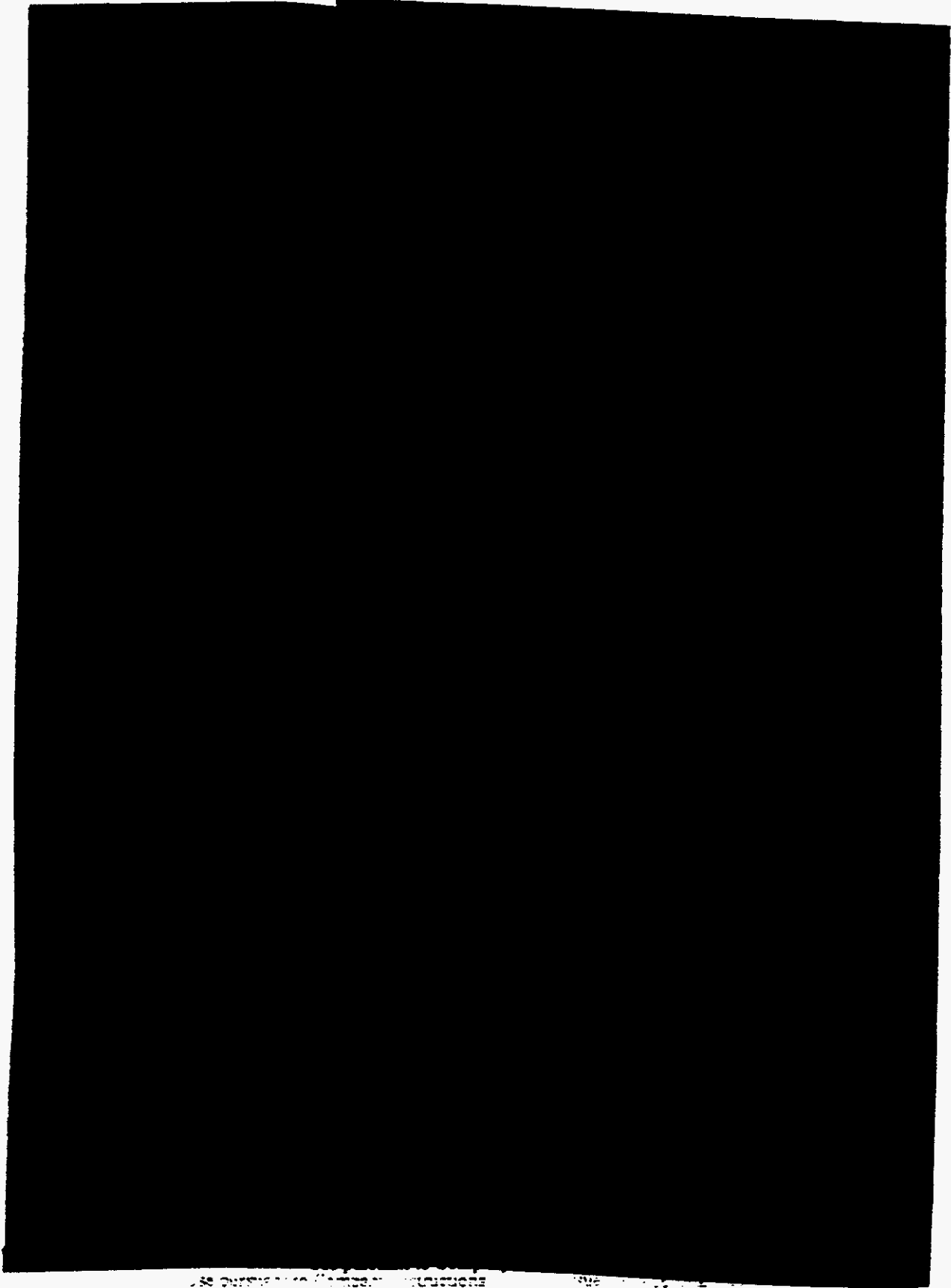
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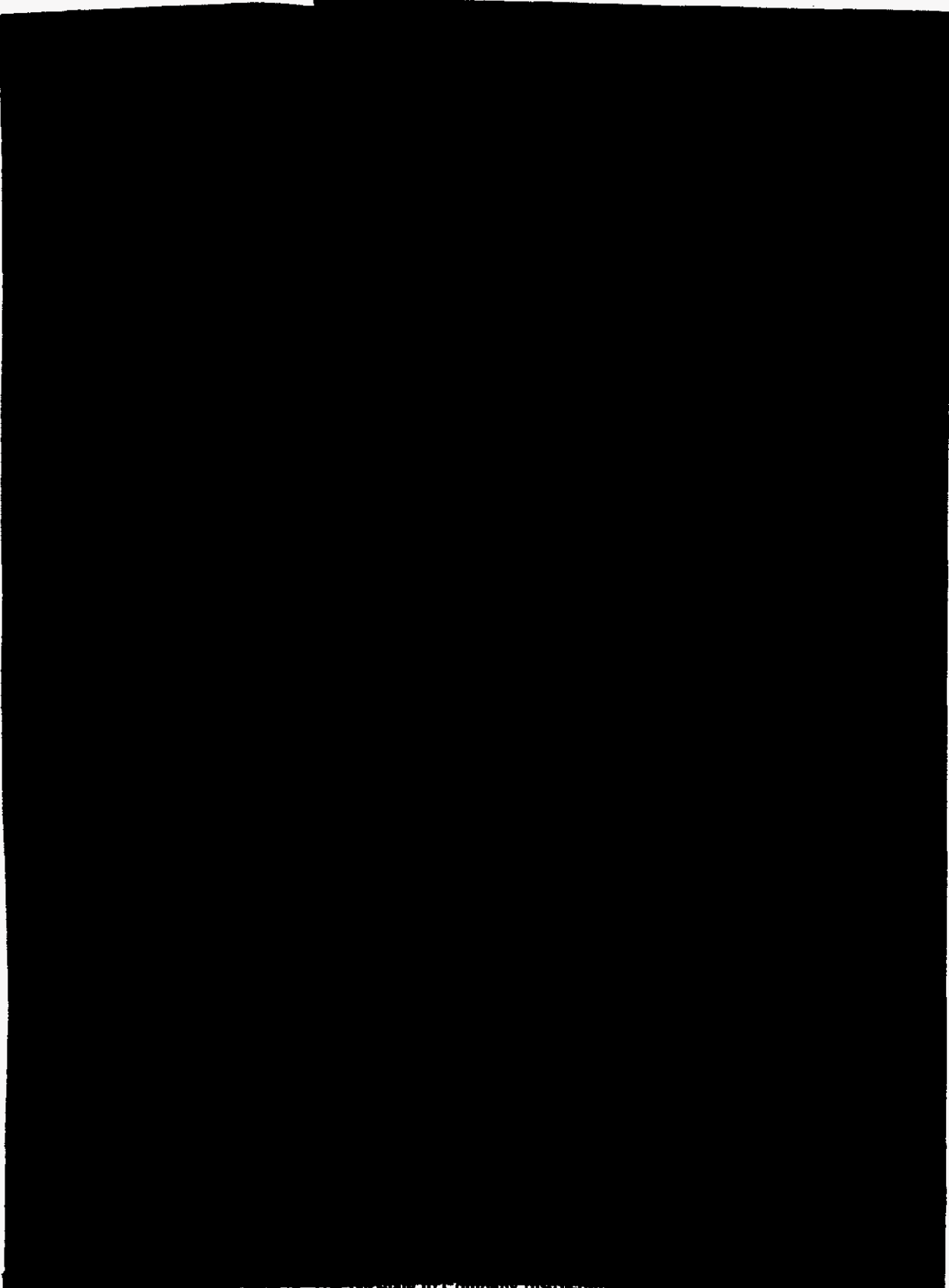
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Use appropriate Member Instructions

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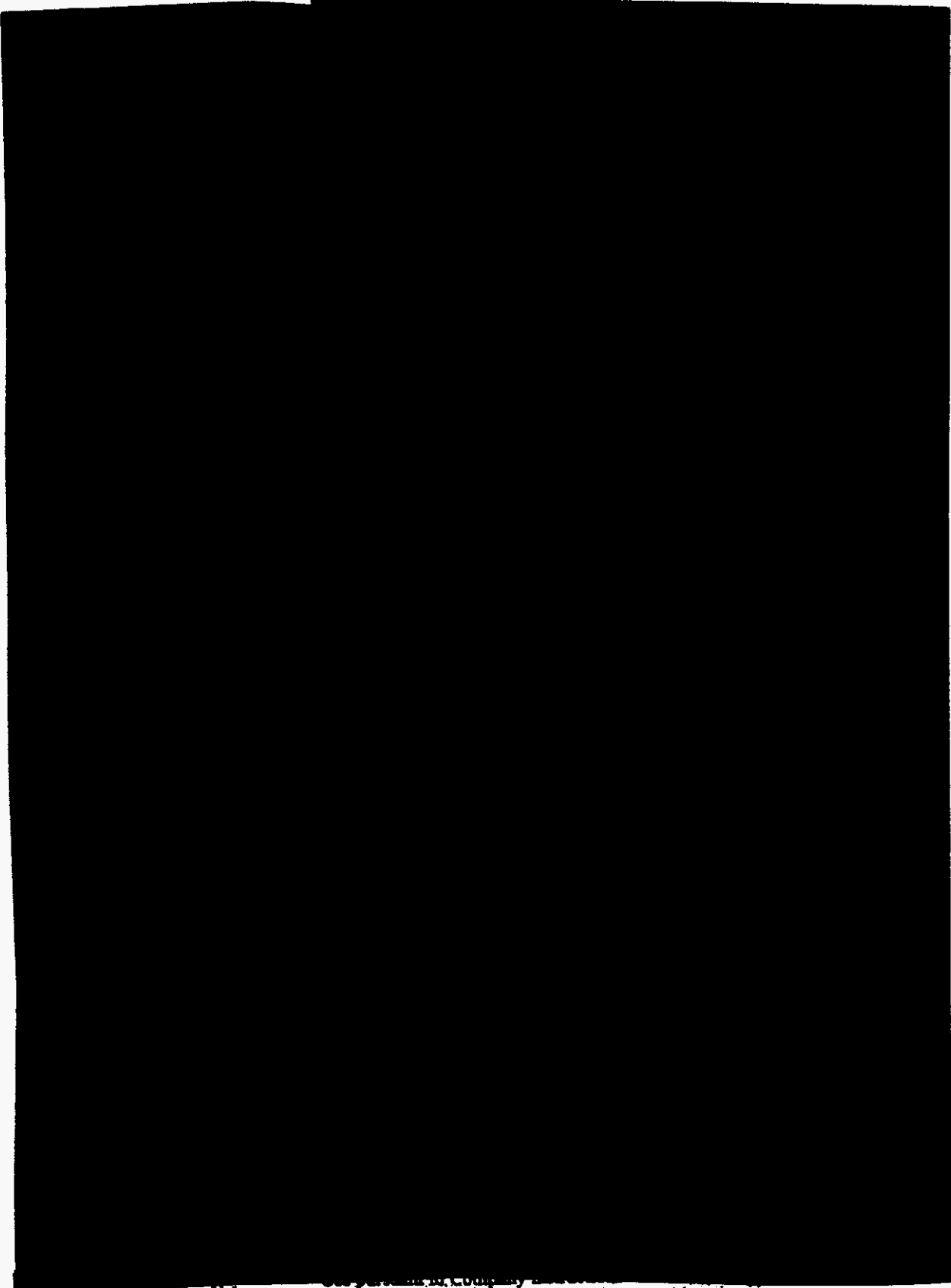
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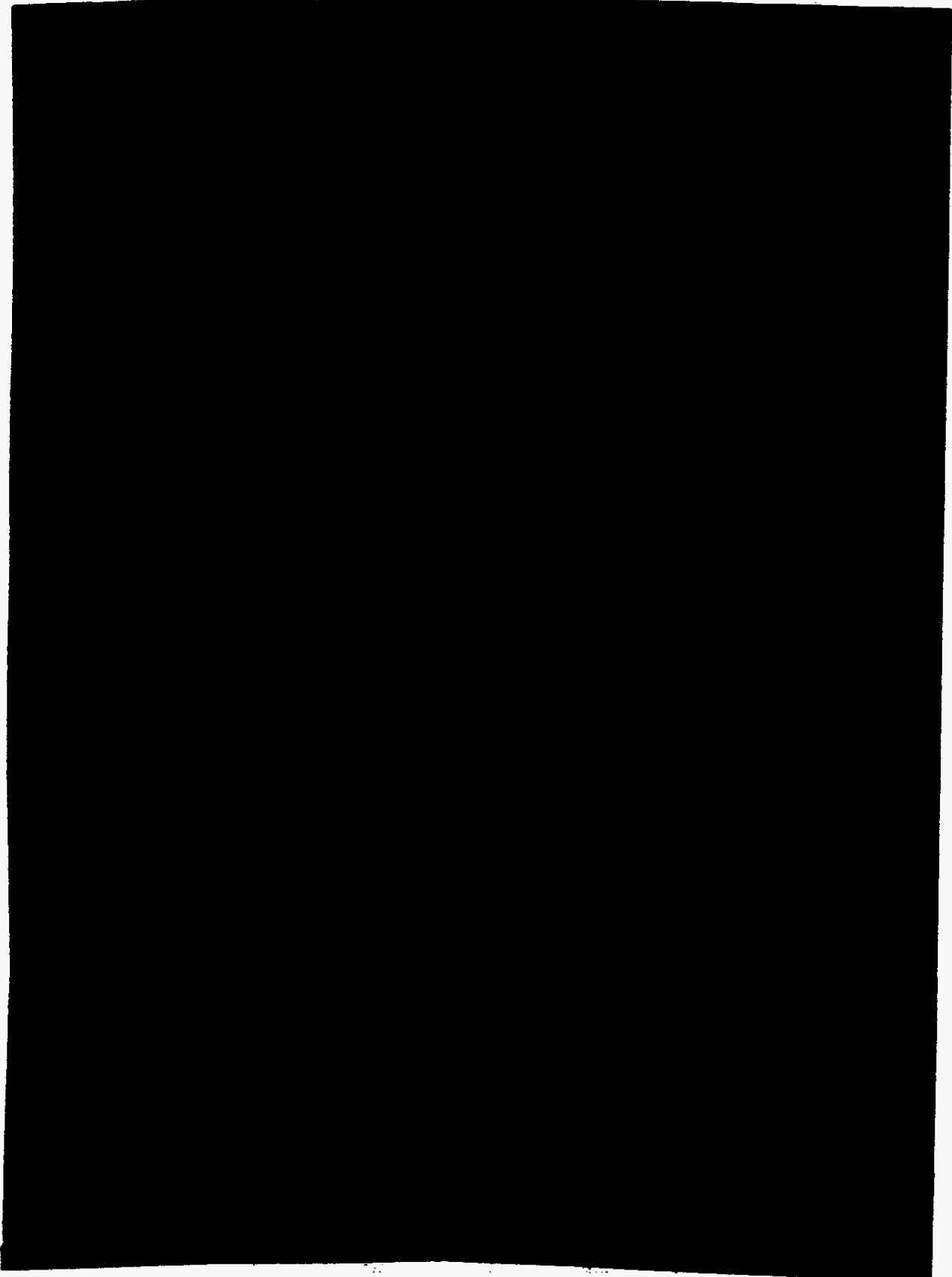
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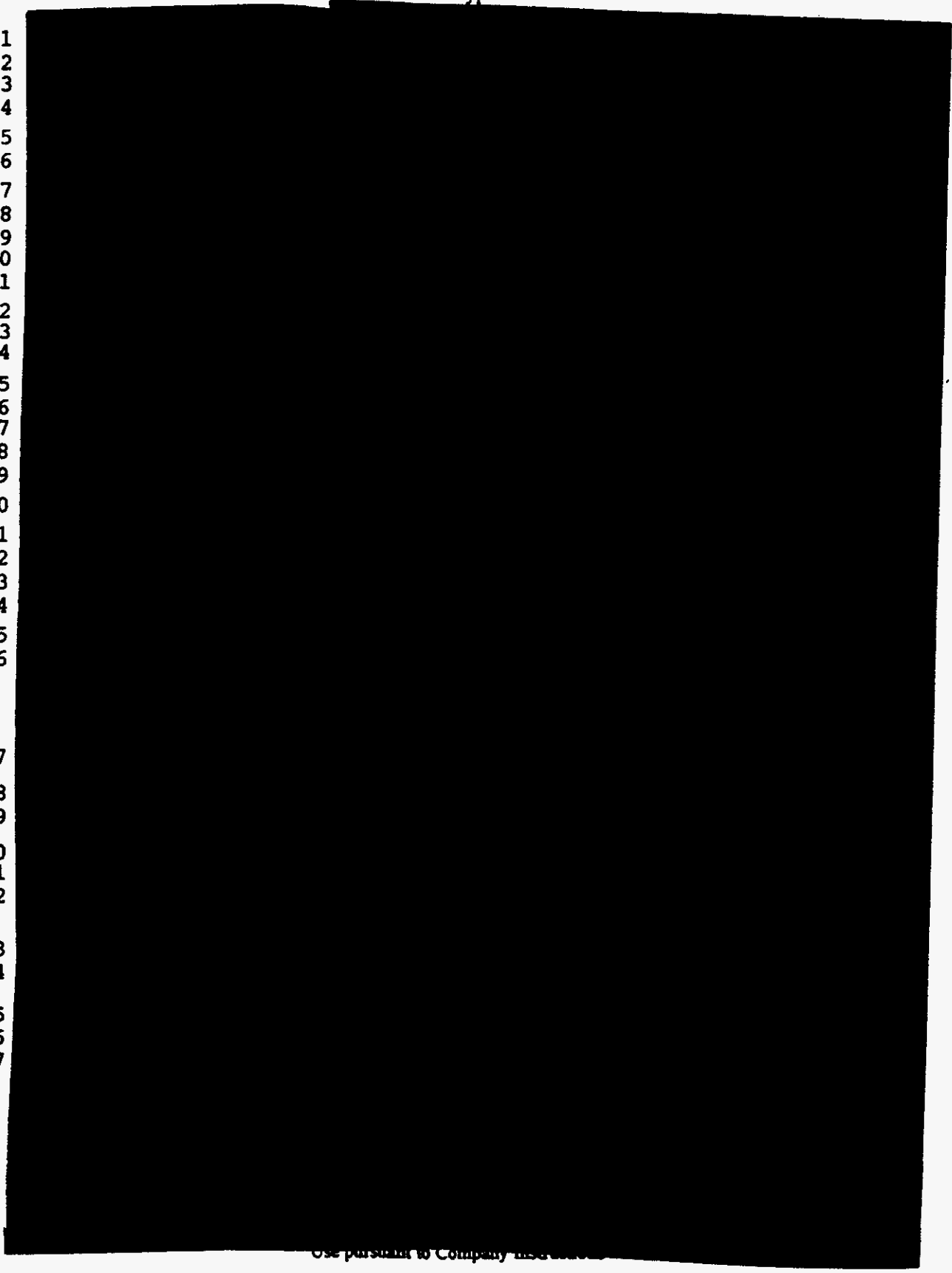


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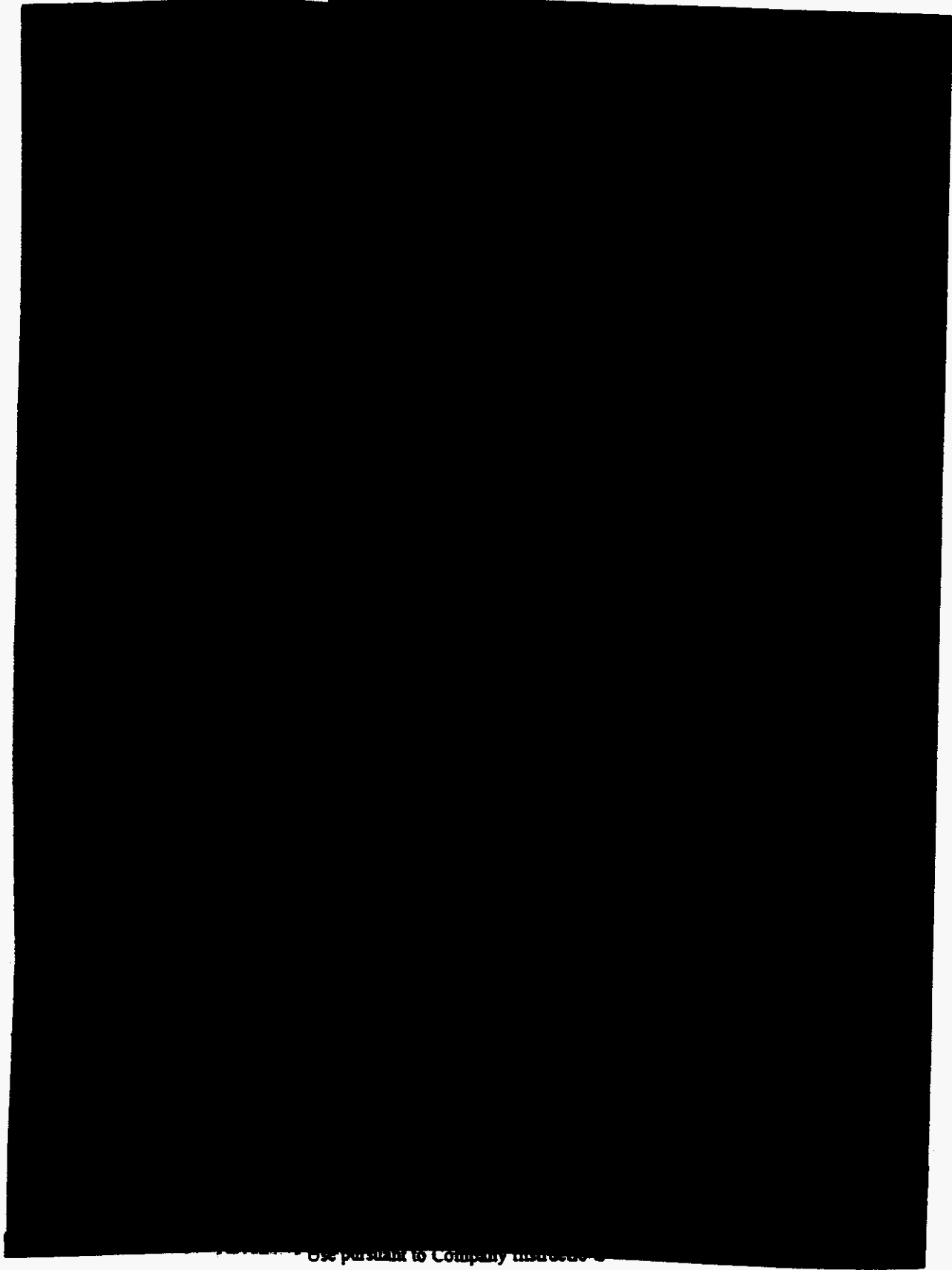
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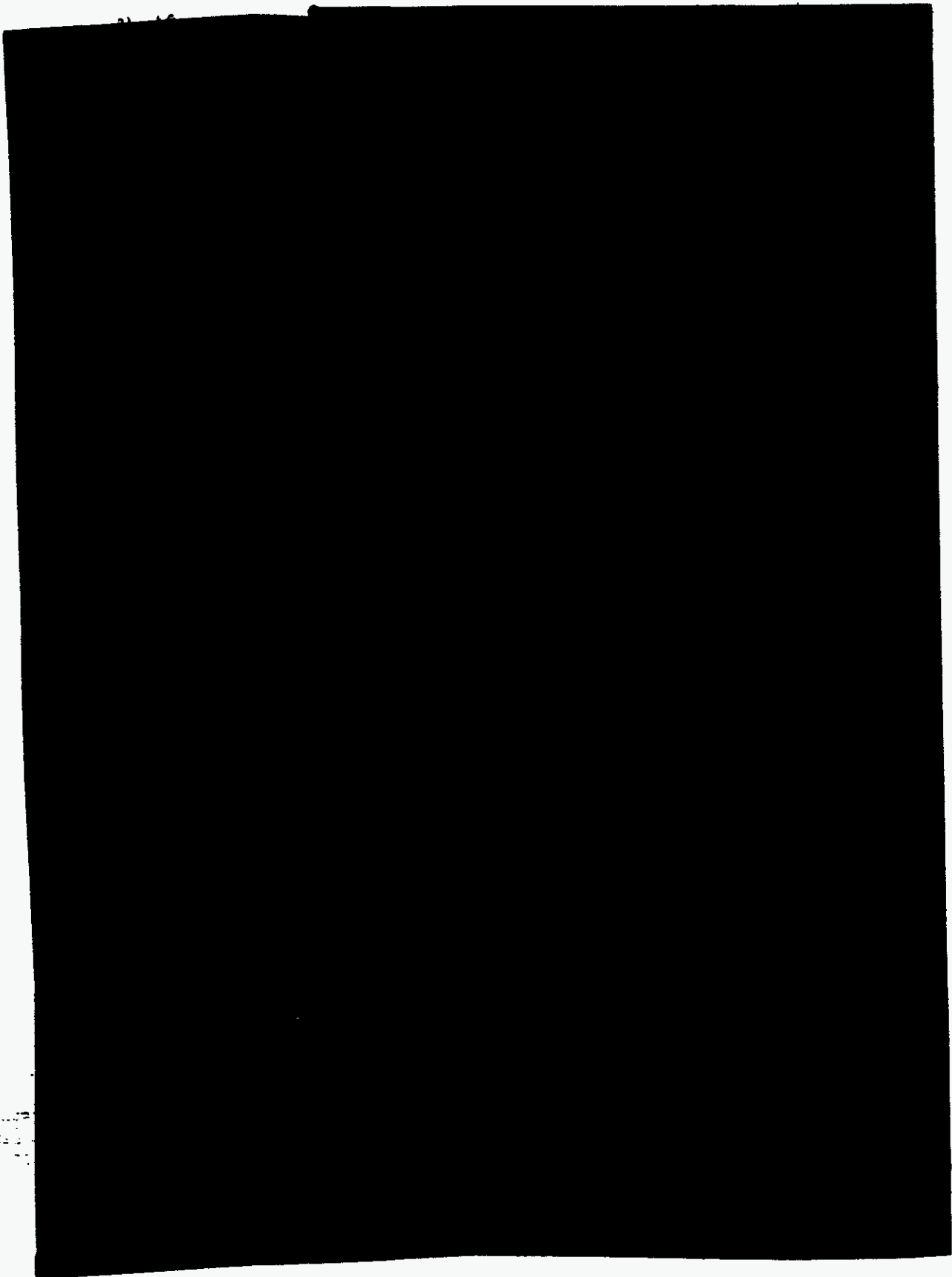
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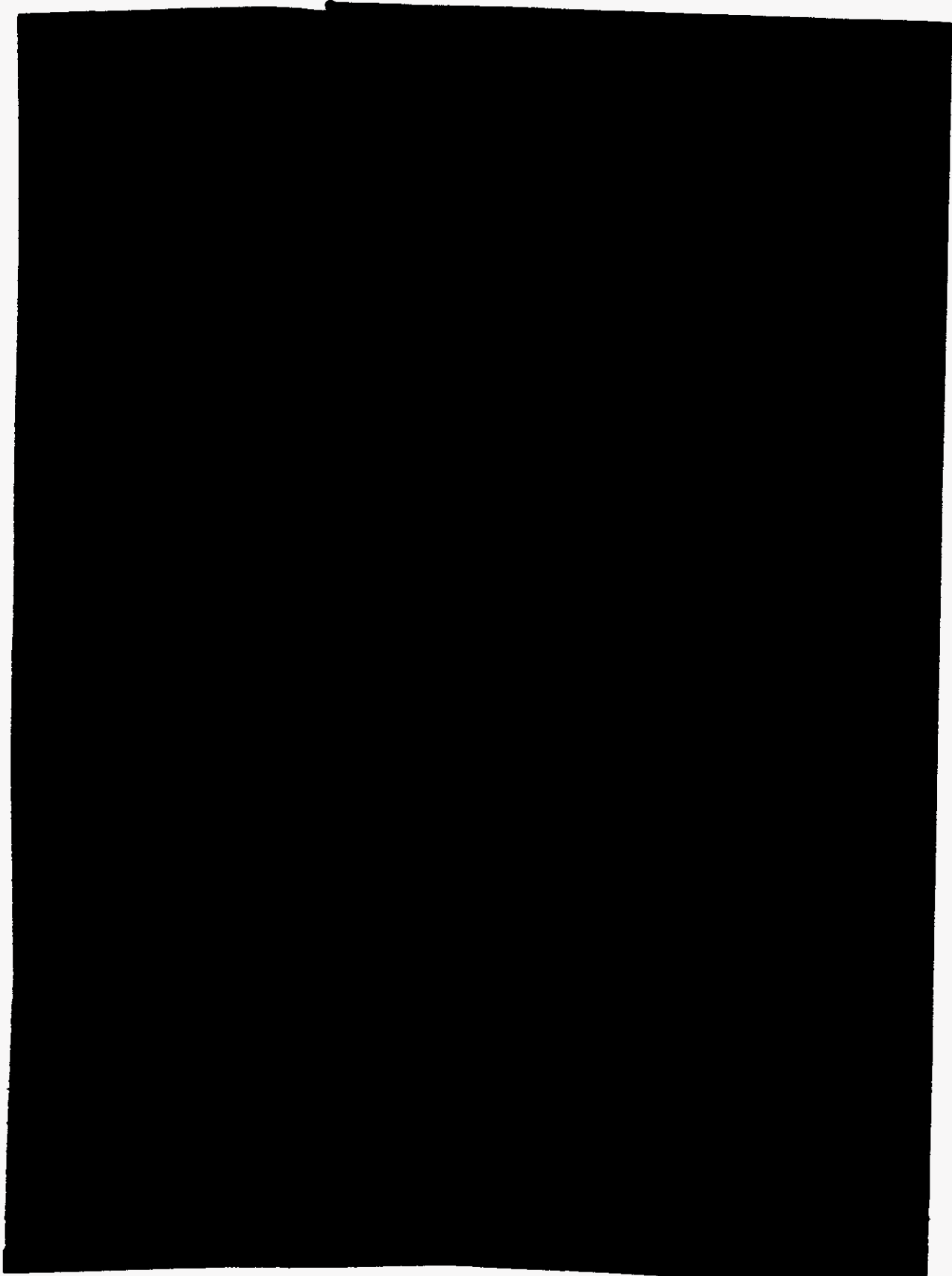
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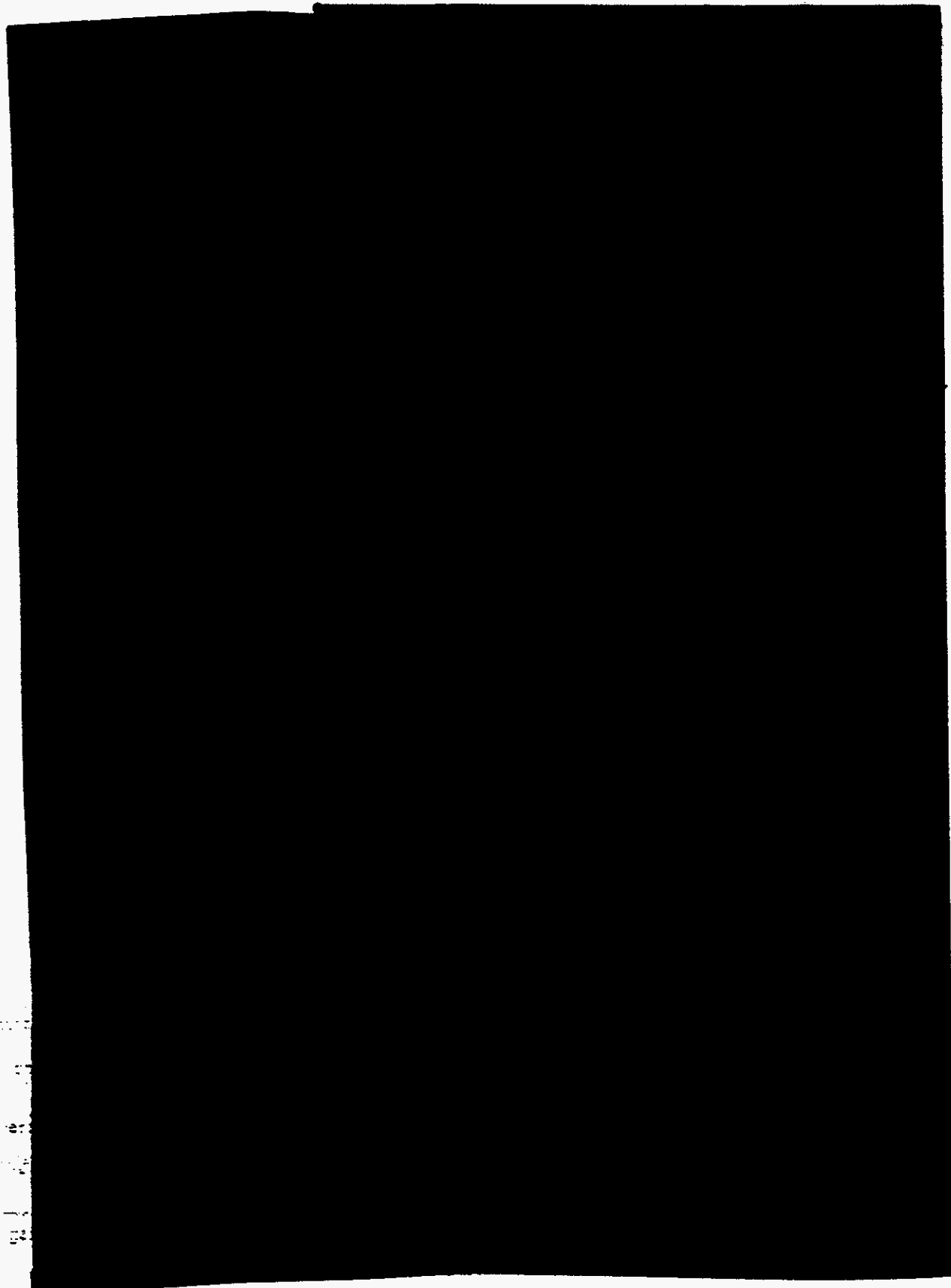
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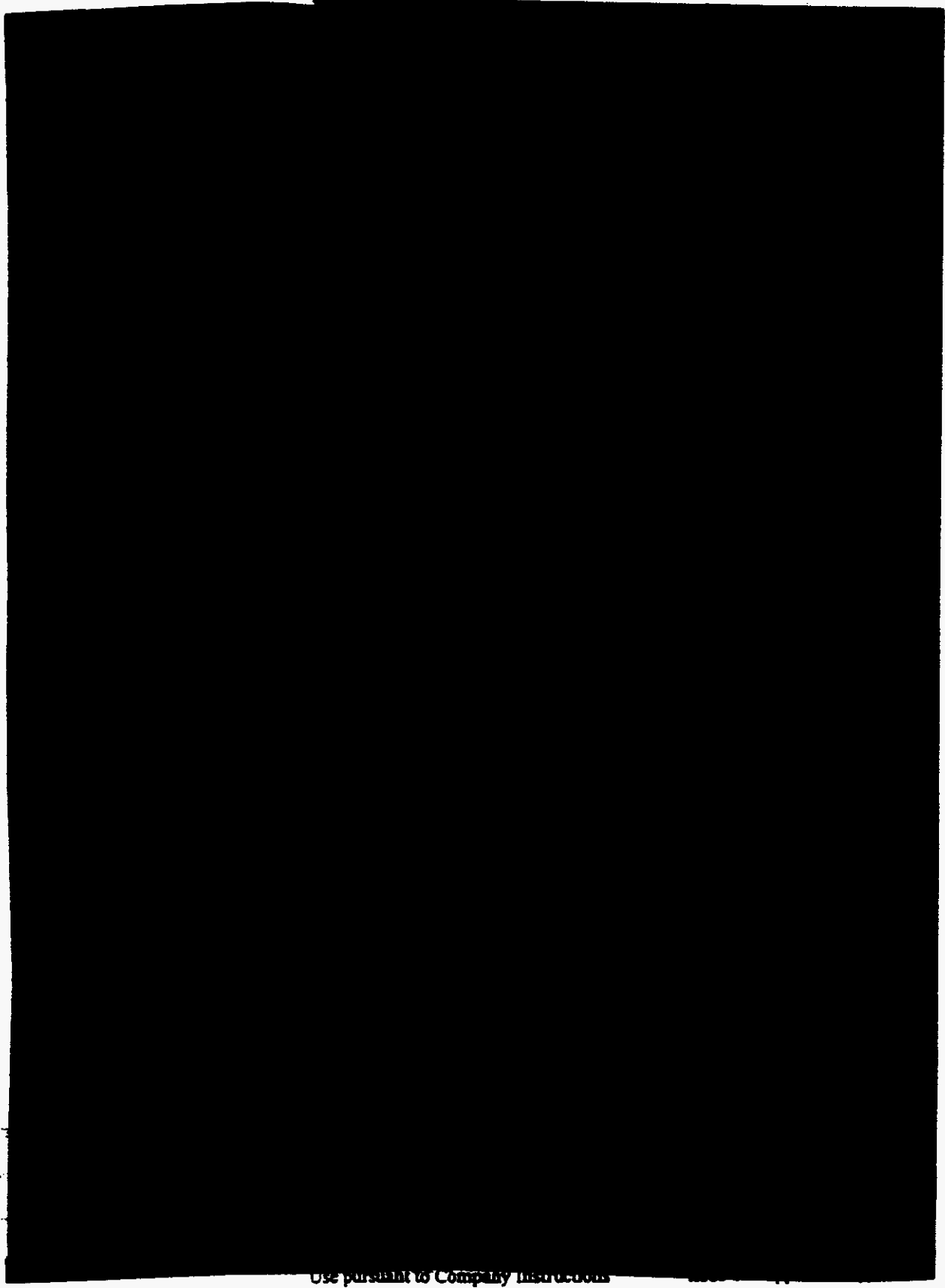
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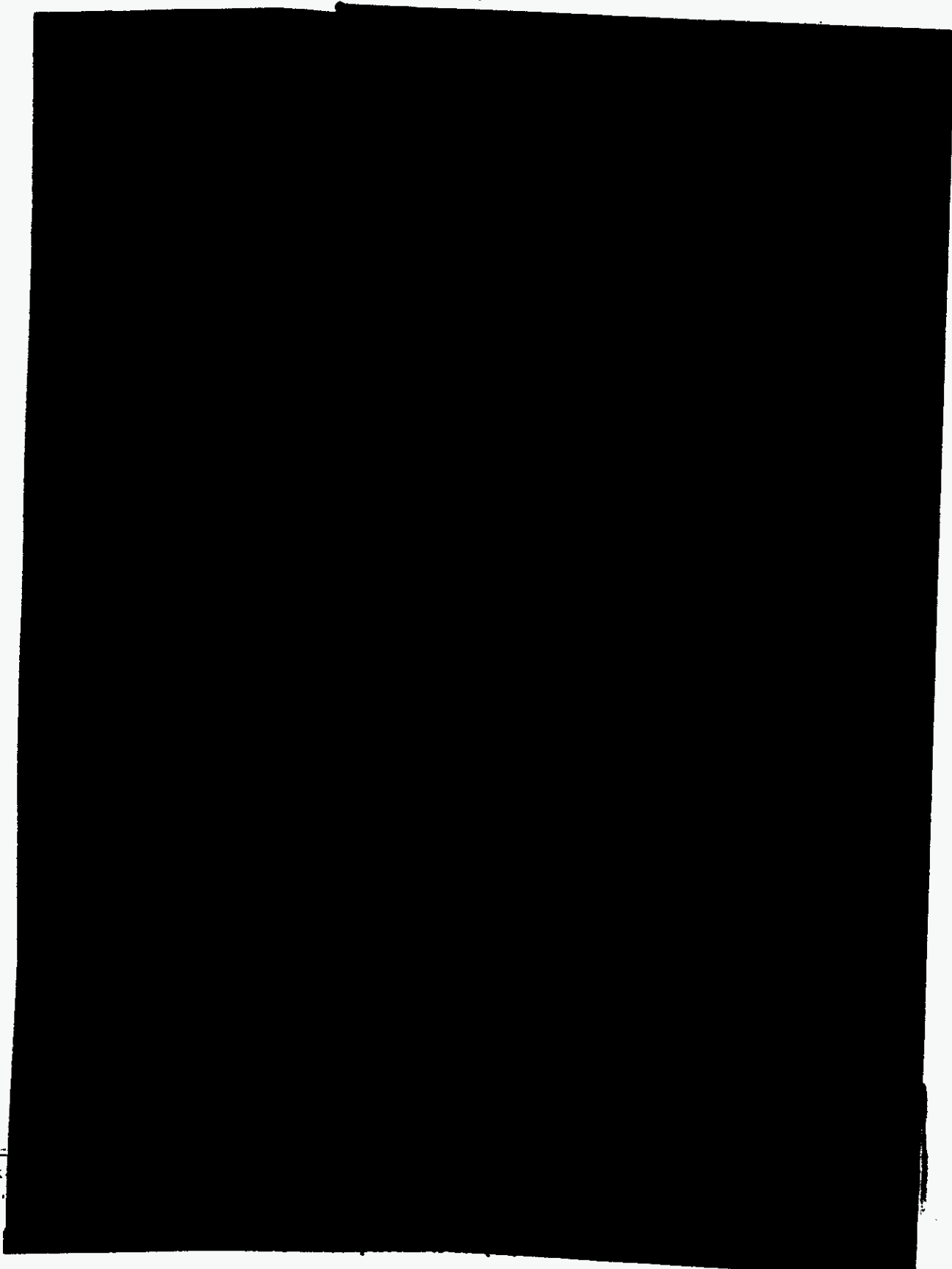
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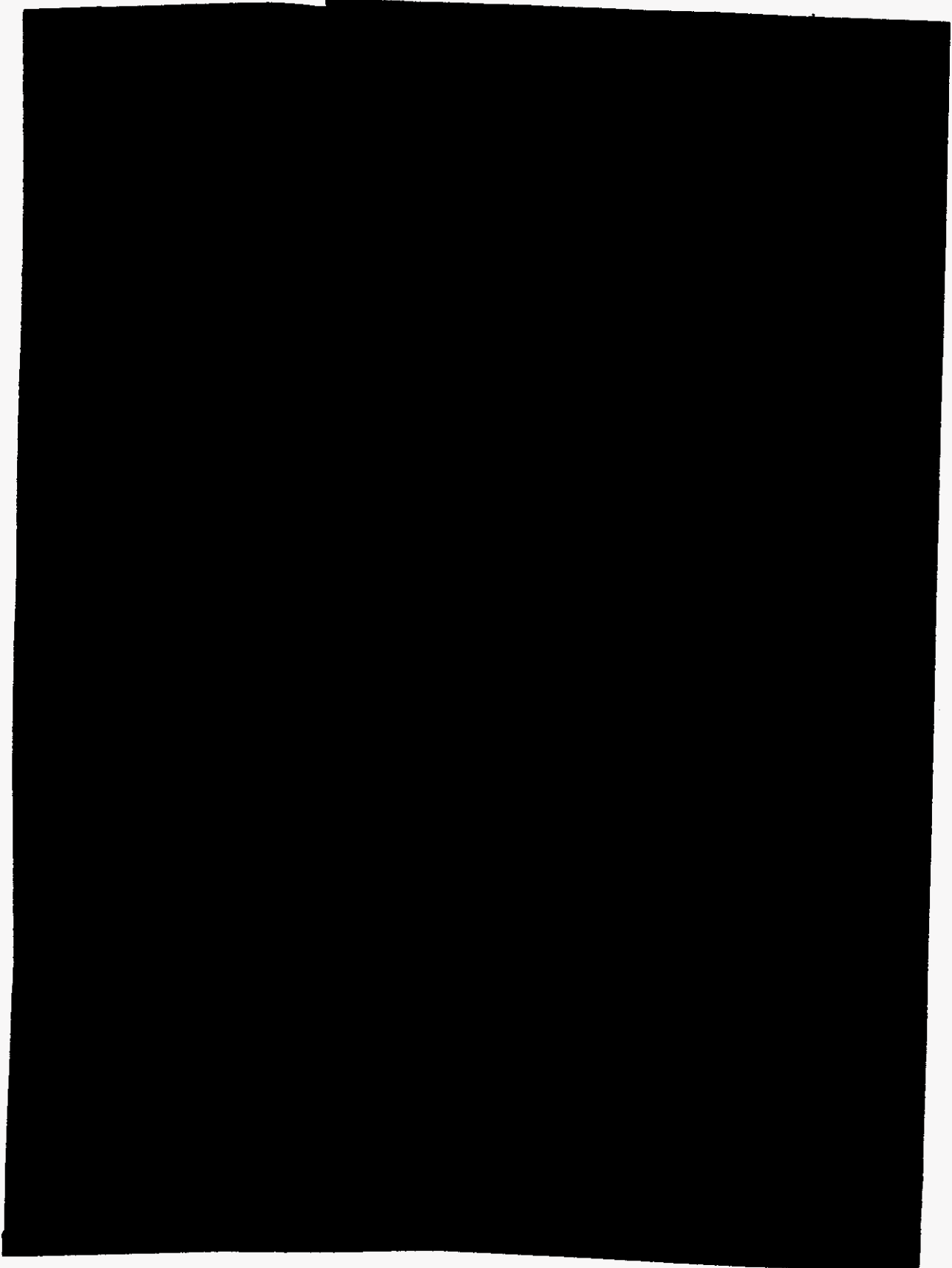
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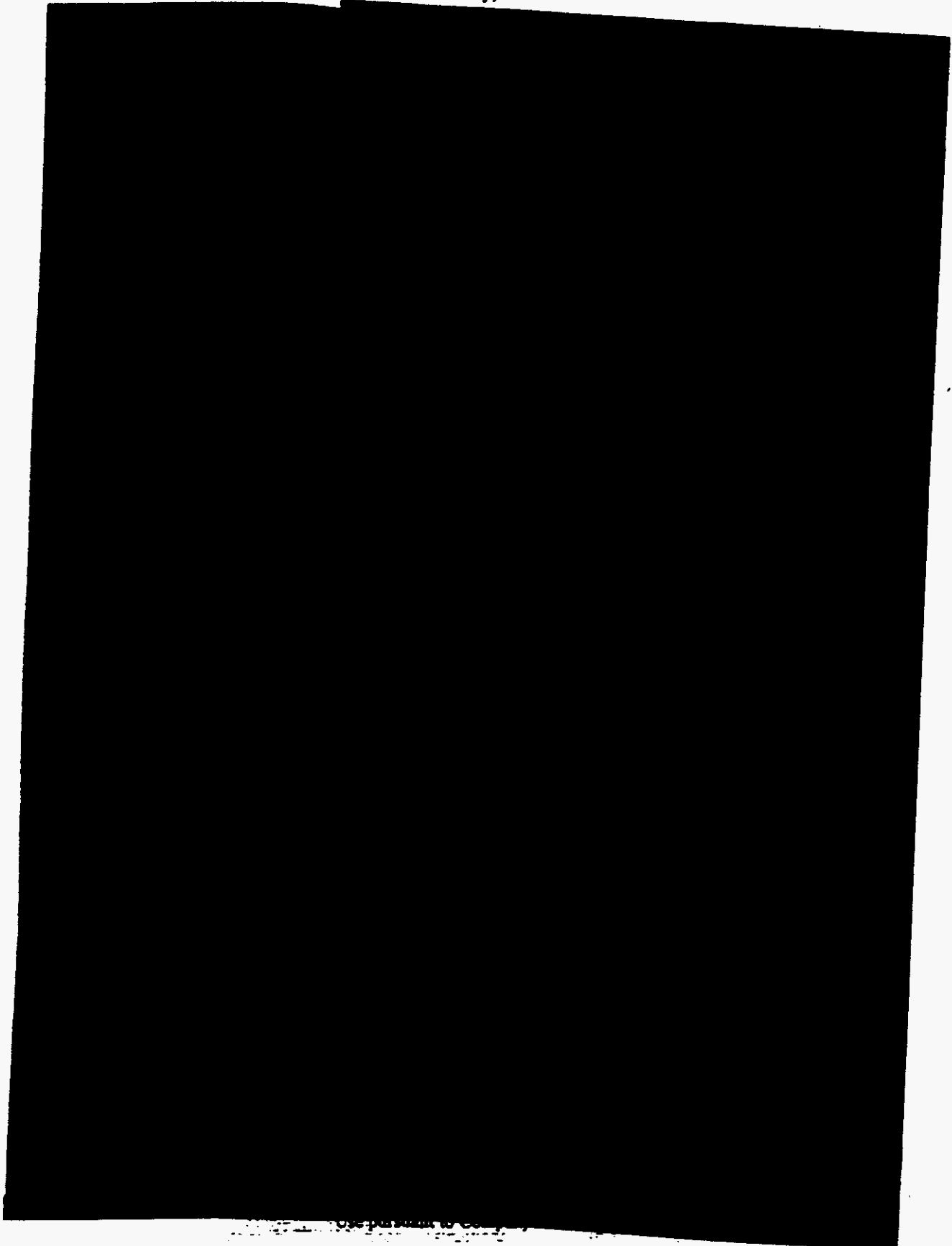
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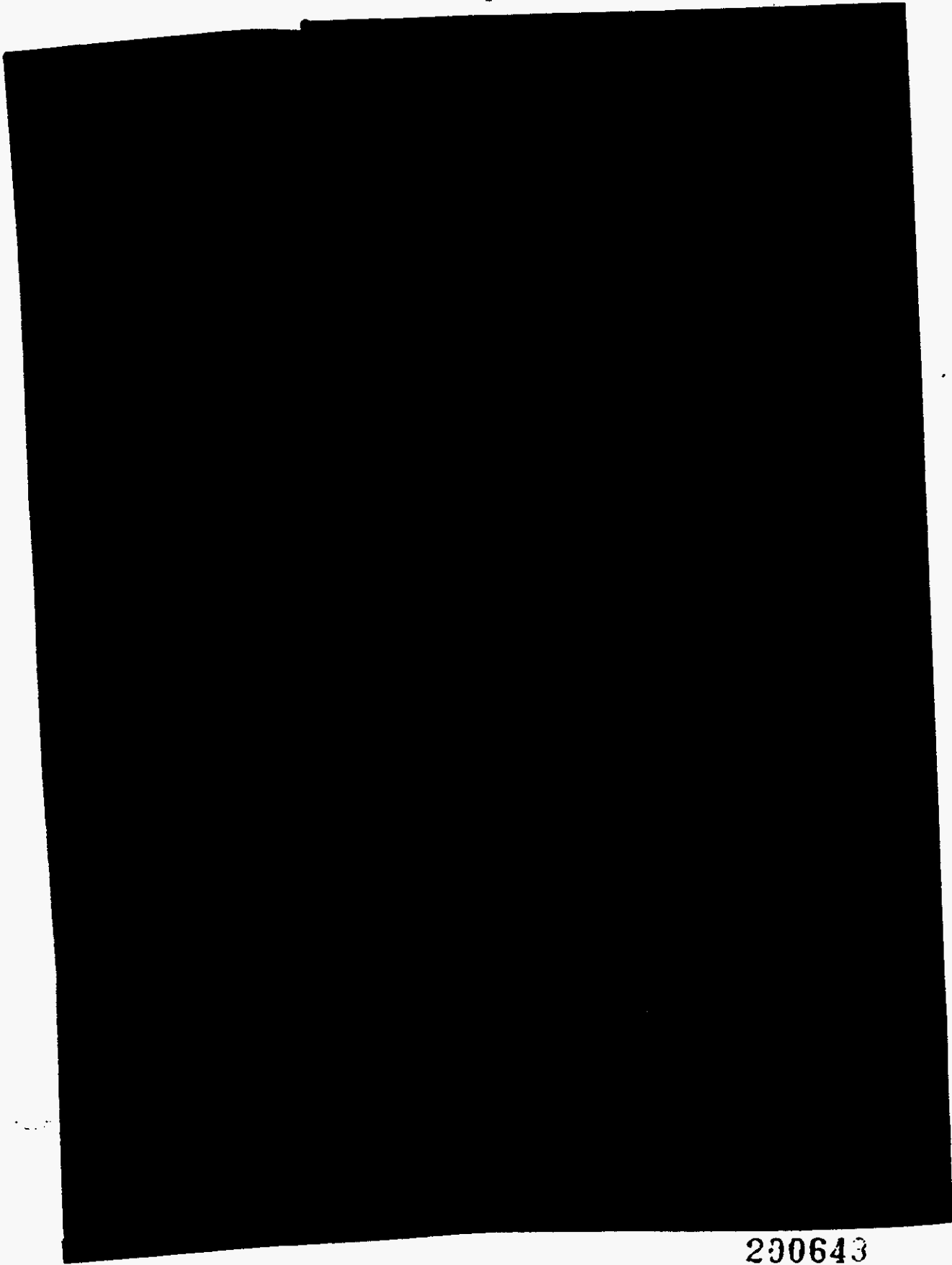
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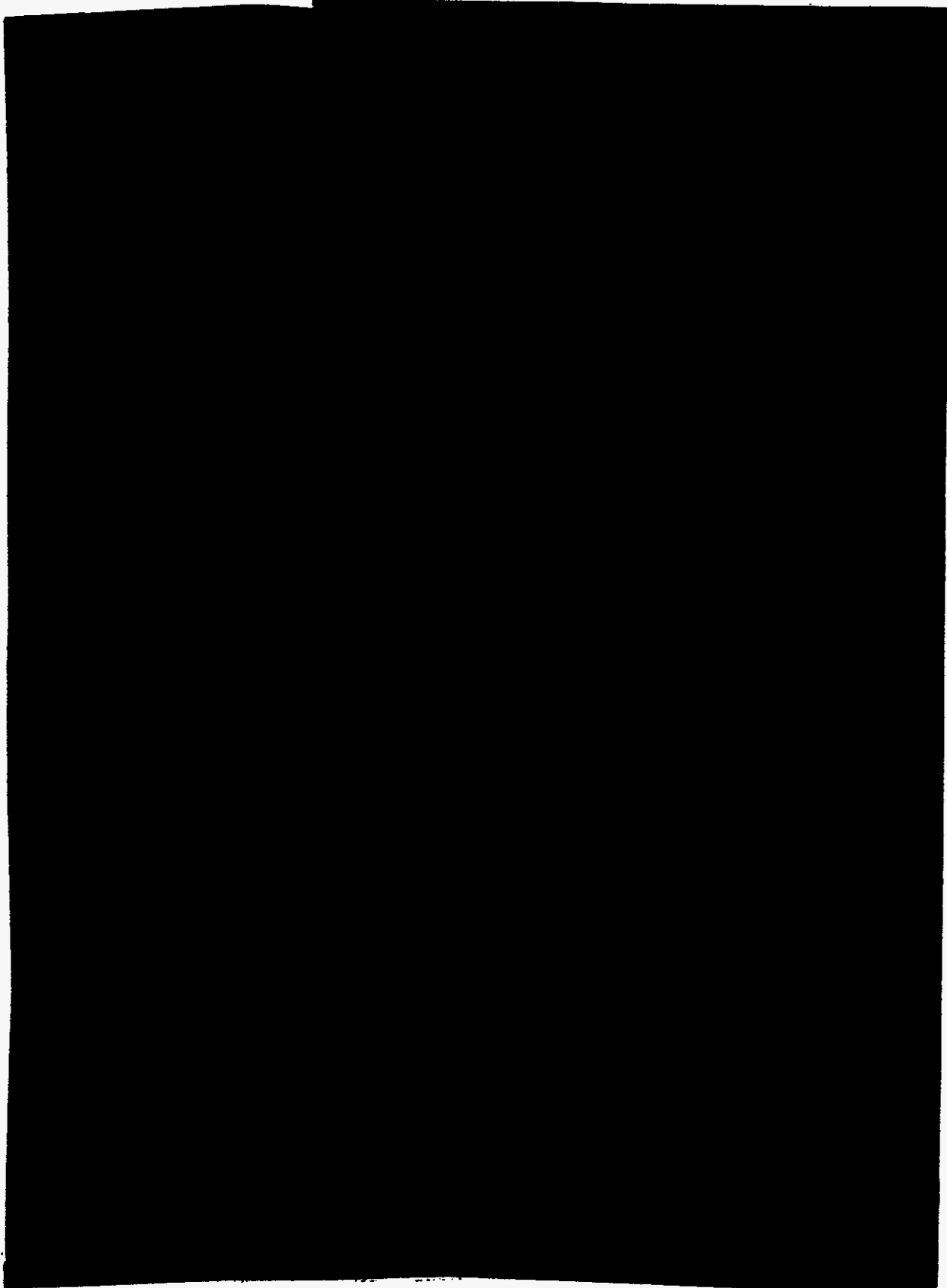
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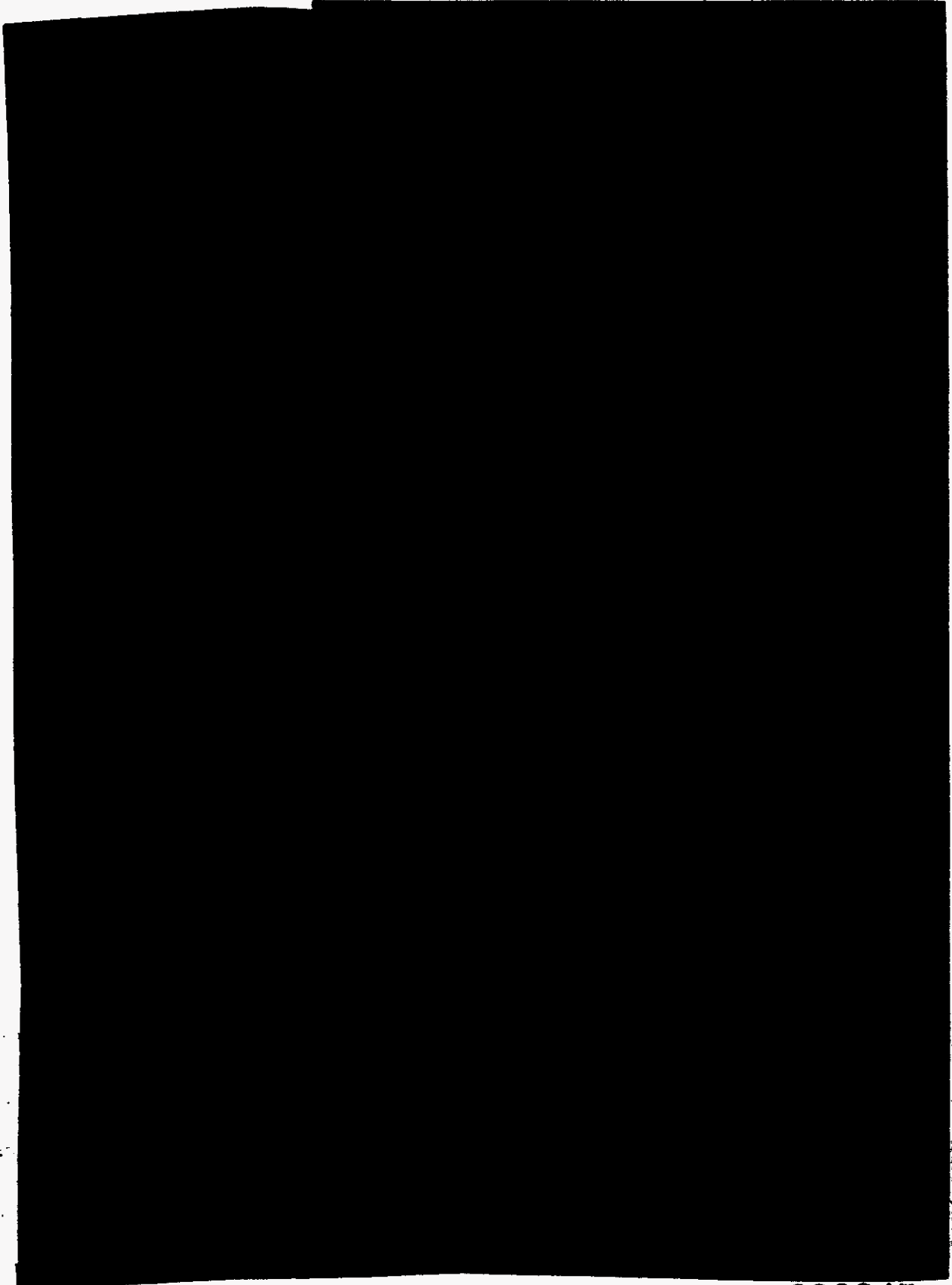
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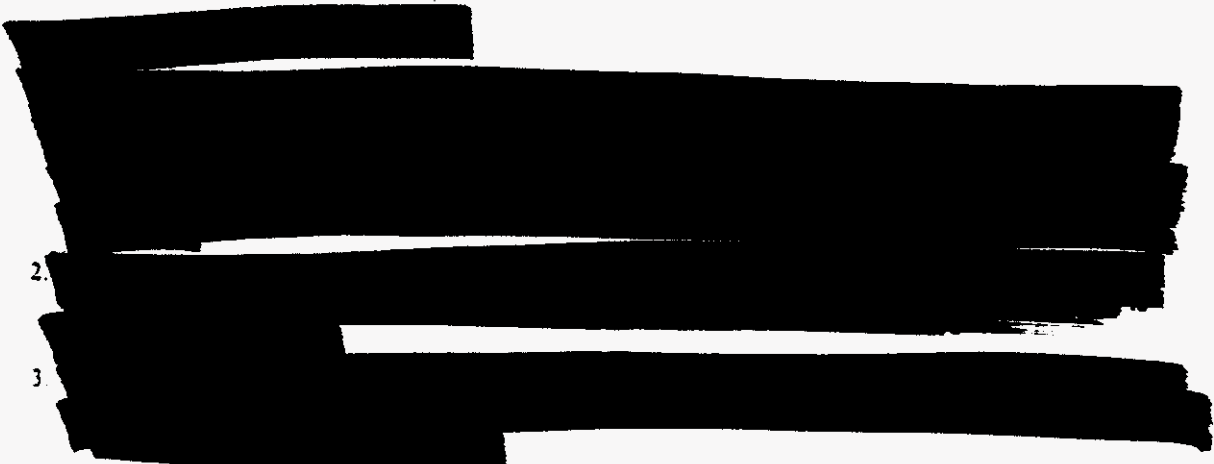
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5. RECORDING / BILLING (ECB)

5.1 Local Switch Office Recording (ECB)

For the case of LEC Resale, OS recording at the LEC End Office will not be impacted because calls are expected to be routed to the AT&T 5ESS/OSPS. When the LEC End Office is requested to route the call to the ASN, it will send the call via a dedicated trunk group. At this point, the LEC End Office will generate an access record. There will be no AMA recording required for these calls at the LEC End Office.

For the case of Loop Resale, OS recording at the AT&T Local End Office will not be impacted because calls are expected to be routed to the AT&T 5ESS® OSPS. When the AT&T Local End Office routes the call to the ASN, it will send the call via a dedicated trunk group. At this point the AT&T Local End Office will generate an access record. There will be no AMA recording required for these calls at the AT&T Local End Office.

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5.2 AT&T Switched Network Recording (ECB)

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5.2.1 AMA Recording Using 5ESS® OSPS

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If the LEC provides the Operator Service and a call is completed, the EMI records will contain information indicating Call Completion.

1 **5.2.1.1 CICADA Call Completion AMA Record**

2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]

6 **5.2.2 Need for Identification of AMA Record**

7 [REDACTED]
8 [REDACTED]

9 **5.2.3 Methods of Distinguishing the AMA Records**

10 For the Loop Resale case, the Local OS AMA records are created at some designated S^{ESS} OS^{PS} to
11 which the Local S^{ESS} directs the calls. These AMA records look similar to regular S^{ESS} OS^{PS} AMA
12 records.

13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]

17 **5.3 LNP Recording Impacts (ECB)**

18 **5.3.1 Local Routing Number (LRN) Solution**

19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]

26 **5.3.2 Remote Call Forwarding Plus (RCF+) Solution**

27 Remote Call Forwarding Plus (RCF+) is similar to LNP in that it permits customers to relocate within the
28 same local call area but to another carrier.

29 No AMA recording impacts are expected. More details of RCF+ are contained in 'CCS Local Number
30 Portability Technical Analysis Brief / Technical Plan,' Issue 1, Draft 5, February 23, 1996.

31 [REDACTED]
32 [REDACTED]

1 **5.4 Recording Impact Summary (ECB)**

2 With the introduction of various local services (e.g. Local calling, Local Operator Services, Local DA,
3 etc.), there will be a significant increase in AMA records and / or EMI records. [REDACTED]
4 [REDACTED]
5 [REDACTED]

6 **5.5 Billing Impact**

7 **5.5.1 Billing Data Acquisition and Transport (BILLDATS) System (ECB)**

8 [REDACTED]
9 [REDACTED]
10 [REDACTED]

11 [REDACTED]
12 [REDACTED]
13 [REDACTED]

14 **5.5.2 Recorded Information Collection (RICS) System (ECB)**

15 [REDACTED]
16 [REDACTED]

17 [REDACTED]
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20 [REDACTED]
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22 **5.5.3 Message Rating (ECB)**

23 [REDACTED]
24 [REDACTED]
25 [REDACTED]
26 [REDACTED]

27 **5.5.4 Local Billing System Impacts (ECB)**

28 [REDACTED]
29 [REDACTED]
30 [REDACTED]

31 J. P. Dovens, B. M. Sullivan, "IntraLATA/Local Service Recording - RICS Technical Plan - Issue 1.2,
32 December 1, 1993"

1 6. FEATURE INTERACTIONS

2 6.1 5ESS® OSPS Interaction (LCM)

3 Local OS calls will be routed to the 5ESS® OSPS. Since carrier of "0288" is used for 00- and 0-, the
4 separation of 00- and 0- would require routing the two types of traffic over separate trunk groups. The 00-
5 traffic can be subject to VRCP treatment and the 0- traffic can then be routed to a live operator team.

6 [REDACTED]
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34 [REDACTED]

35 Input from P. Thomson.

36 An operator will allow a blocked call to proceed if it is an emergency call.

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6.4 Multi-Linqual Operator Services (LCM)⁵⁶

[REDACTED]

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6.5 Local Number Portability and 5E OSPS T&A (LCM, TAD)

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Local Number Portability (LNP) is the capability for customers to change their Local Service Provider (LSP) while retaining their current telephone number. In the LNP environment, the NPA-NXXs which the LEC owns and leases numbers to other LSPs (e.g. AT&T) in the LEC Service Resale will be opened to portability, and the numbers leased from the LEC will be considered ported. The local OS service, along

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⁵⁵ Echols, T., "Comments Regarding OSPS Support of IntraLATA Toll Presubscription Functionality," June 26, 1995.
AT&T Translation Guide (TGS), "IntraLATA PIC Capability", Division 2, Section 4A149, May 1995.

⁵⁶ Input provided by C. Most, S. Scharn, and Operator Call Servicing team.

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1 with other CCS / BCS features and services, is being assessed⁵⁷ for LNP impacts to ensure it is compatible
2 with the various proposed LNP implementations.

3 There are several interim and permanent solutions being studied.⁵⁸ Certain interim solutions will require
4 extensive development in the ASN and appear to be 1 to 2 years away. Unfortunately, AT&T must meet
5 the customers needs in an earlier timeframe. Of the available alternatives, LNP with Remote Call
6 Forwarding (RCF+) seems the most likely candidate. It is ready now, it can be applied on a line by line
7 basis and does not require direct trunking between end offices from which customers numbers have been
8 ported and the office to which they have been ported.⁵⁹ Unfortunately, RCF+ has some shortcomings
9 when applied to operator services. When an AT&T operator attempts to verify a ported number they will
10 always attempt to verify the ported number in the end office from which the customer left. Let's refer to
11 this as a ported number A. The RCF+ can direct a normal call to ported number B. In reality, the AT&T
12 operator or inward operator can only test ported number A. It will always look idle. This is not a new
13 situation. RCF has already interfered with accuracy of the response / report of the BLV/EI feature long
14 ago. In addition, calls arriving at an AT&T operator's position from a ported customer will always show
15 their ANI to be ported number B. This can lead to confusion and eventually customer dissatisfaction.
16 Of course, the billing number populated in the AMA call record will be ported number B.

17 LNP is applicable to any call to an AT&T local service customer. LNP is needed to correctly route their
18 calls. In addition, LNP has implications on calls from our customers, in that their caller ID/ANI must be
19 the correct number. LNP applies only to Loop Resale and LEC Resale with AT&T-handled operator
20 services. LNP has feature interactions with the following 5ESS® OSPS T&A features:

- 21 1. Telephone Line Number (TLN) based Calling Cards.⁶⁰
- 22 2. TLN card billing if ported cards are honored.
- 23 3. Non Card billing of ported numbers.
- 24 4. Originating and terminating access charging.
- 25 5. Inward and BLV calls.

26 To date, there is no new LNP issues introduced by the local OS architecture. The areas of potential
27 impact, including call routing and recording, are shared by other AT&T services. The solutions currently
28 being addressed for these areas of service impacts would satisfy the needs of local OS service. Additional
29 information will be added to this section in the future as needed.

30 6.5.1 Call Routing Impacts

31 ⁵⁷ CCS LNP Technical Plan (M. Bilder, coordinator) to address CCS LNP impacts on local features and
32 services.

33 ⁵⁸ Bhagat, P. K., et al., "Local Number Portability", Technical Plan, Core Feature Request #4216. Draft
34 copy, June 5, 1995.

35 Bhagat, P. K., et al., "Local Number Portability with Carrier Portability Codes", Feasibility Report, NSD
36 Tracking Number 4949, Draft Copy, June 15, 1995.

37 Choy, M., et al, "Local Number Portability", Technical Plan.

38 ⁵⁹ Correspondence with E. G. Burns, May 19, 1995.

39 ⁶⁰ TLN Calling Card is not currently being considered as part of the local service offering. This status
40 may change as a result of future business needs.

1 The local OS call completion is handled at the Regional SESS® OSPS. For calls involving an ANI which
2 is ported, relevant information to complete the call (e.g. routing information) will be retrieved at the
3 SESS®. This method will satisfy local OS as well as other services that have call completion occurring at
4 the SESS®.

5 **6.5.2 Recording Impacts**

6 The LNP guidelines for recording are being discussed by the industry. There are various assumptions
7 which are well accepted, but are subject to change. The method to be selected will apply to local DA as
8 well as other services. Refer to the earlier "Recording" section for the current assessment of LNP impacts
9 on local DA recording.

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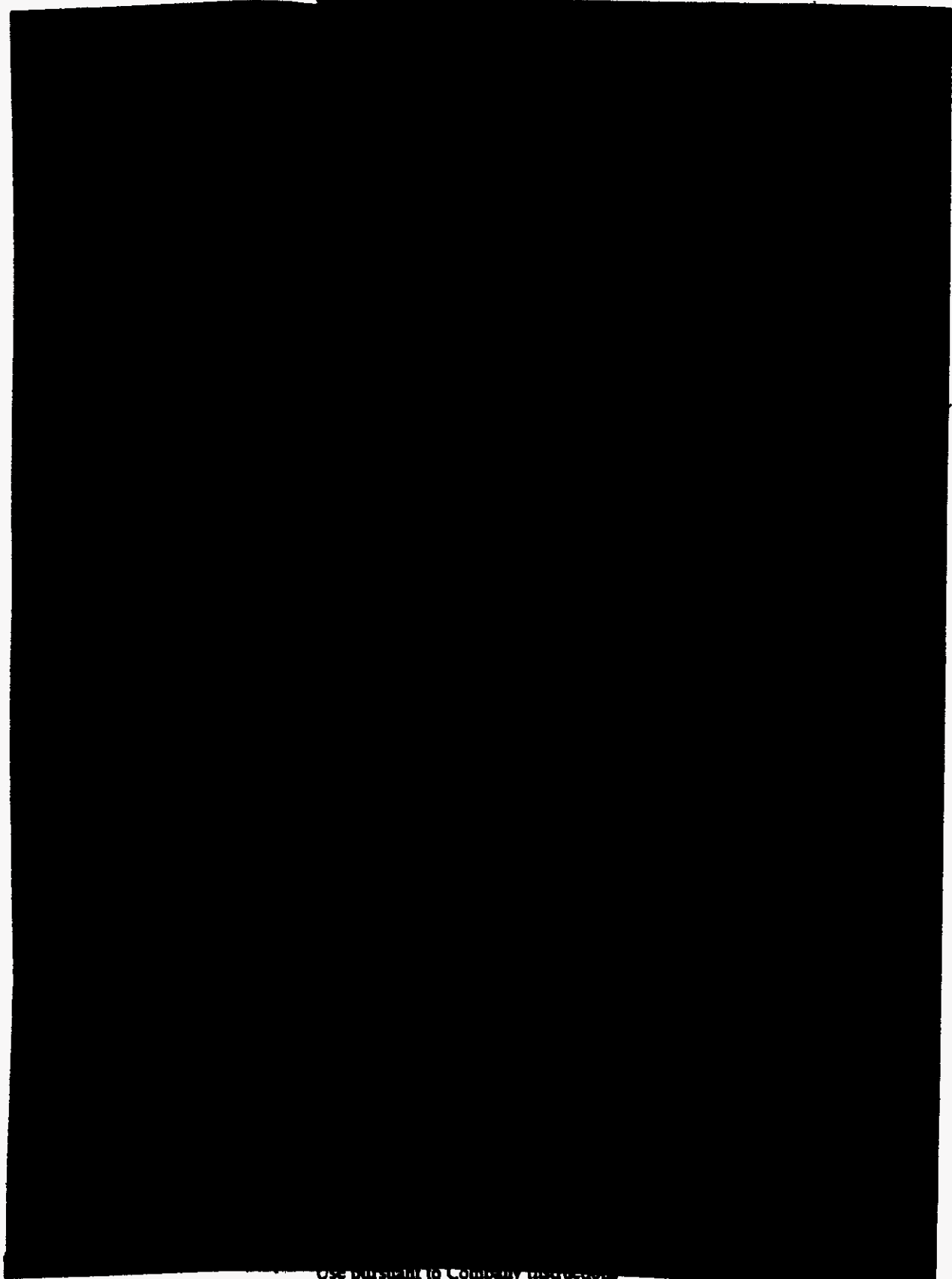
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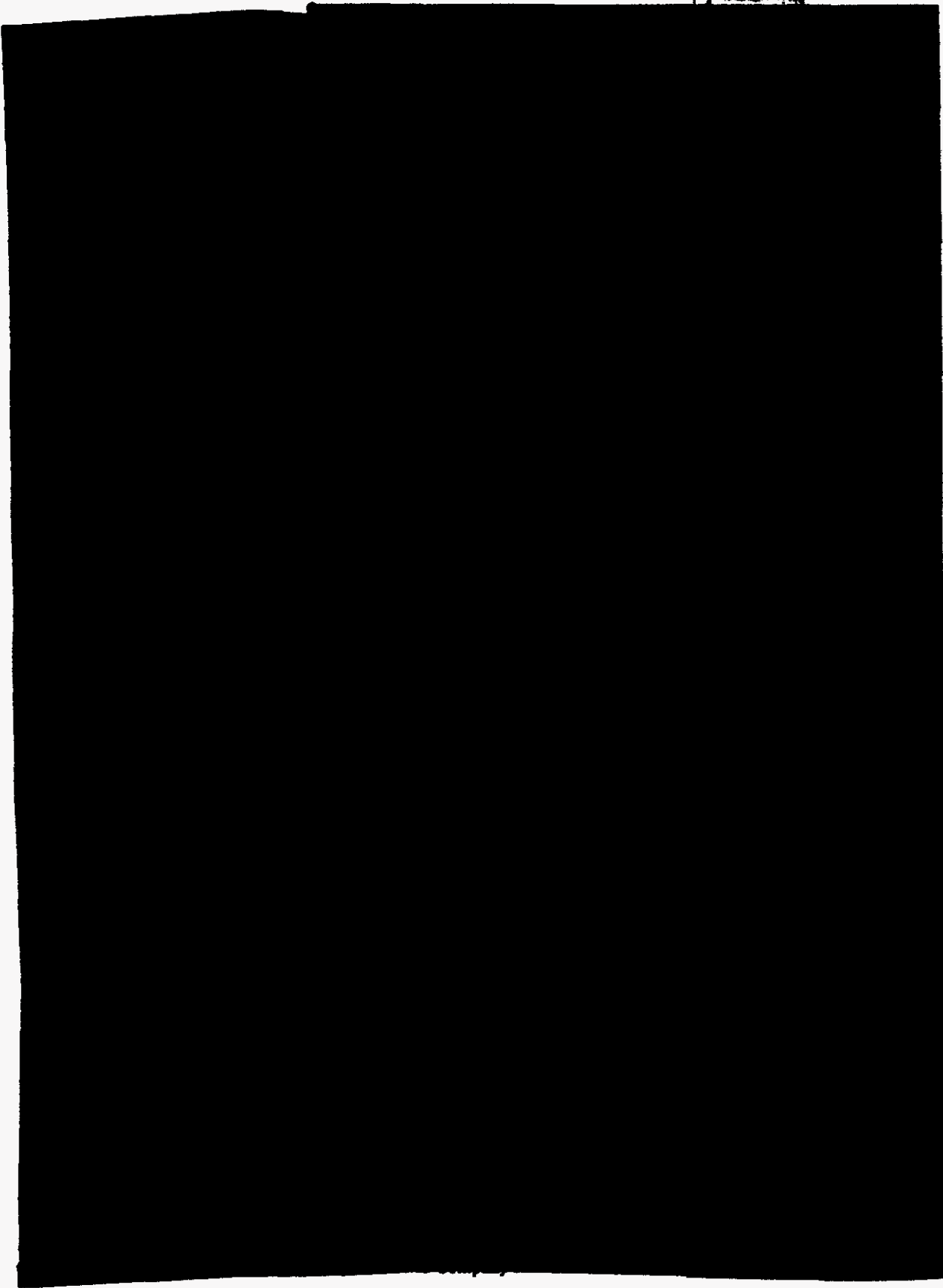
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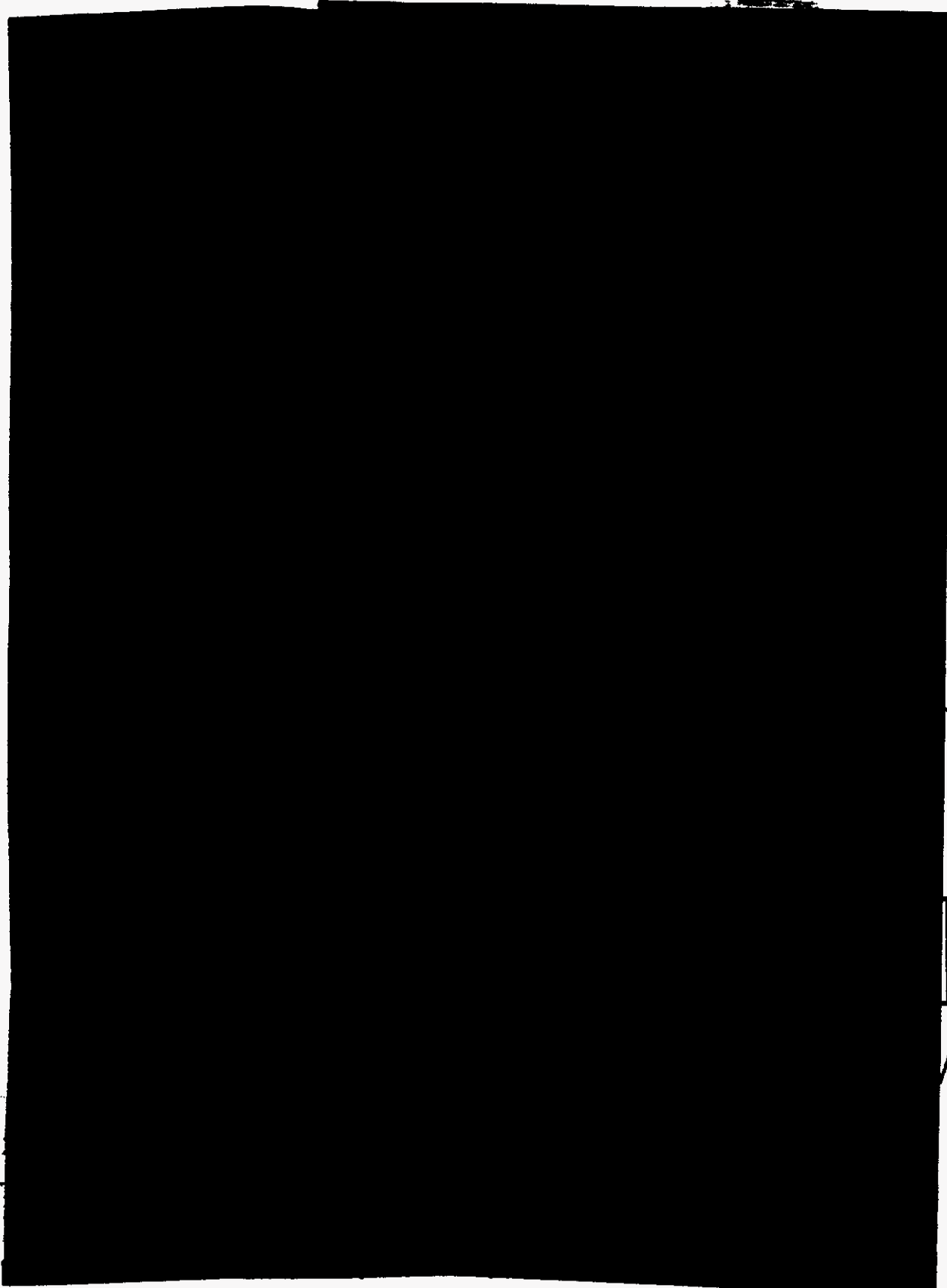
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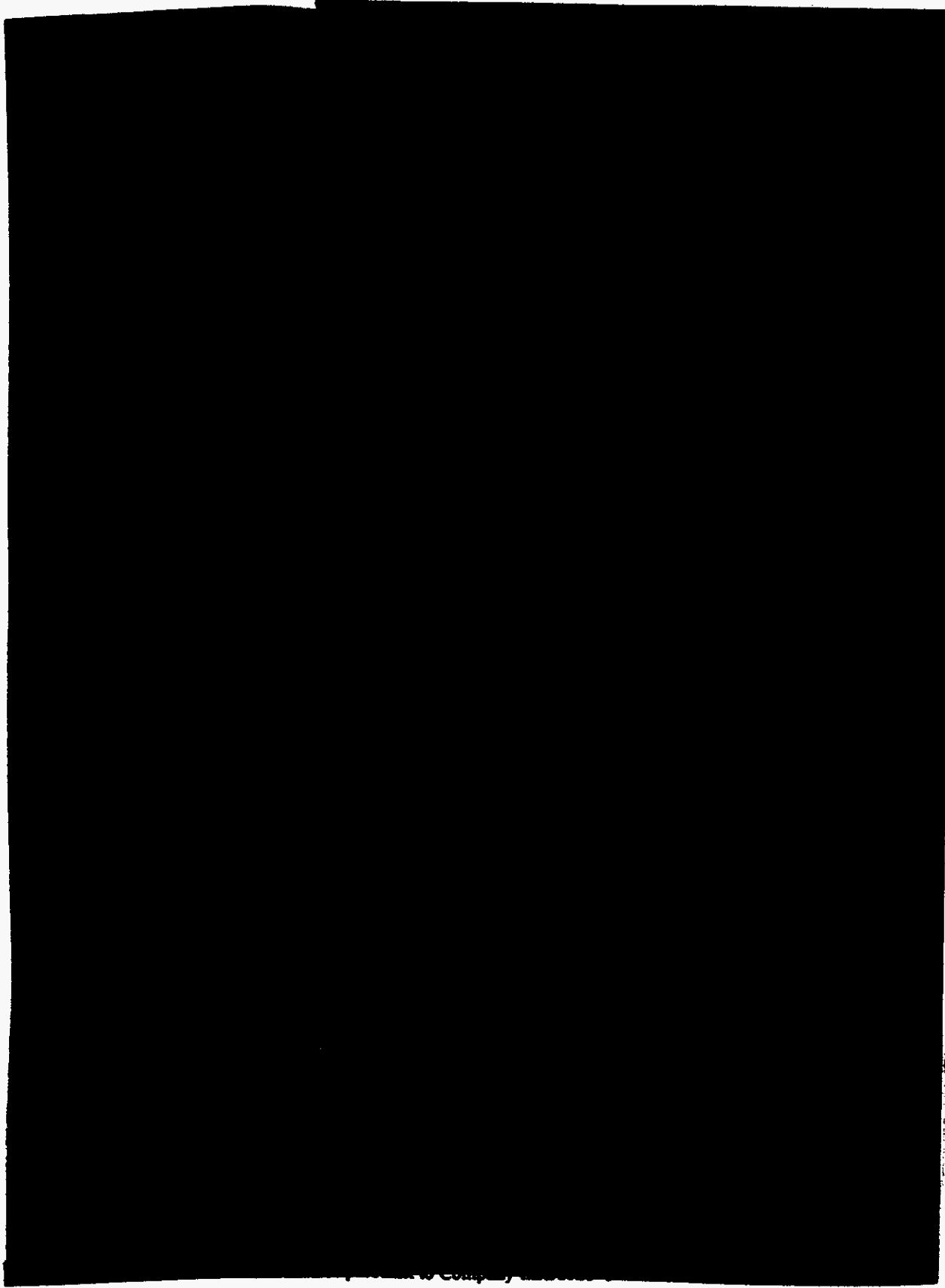
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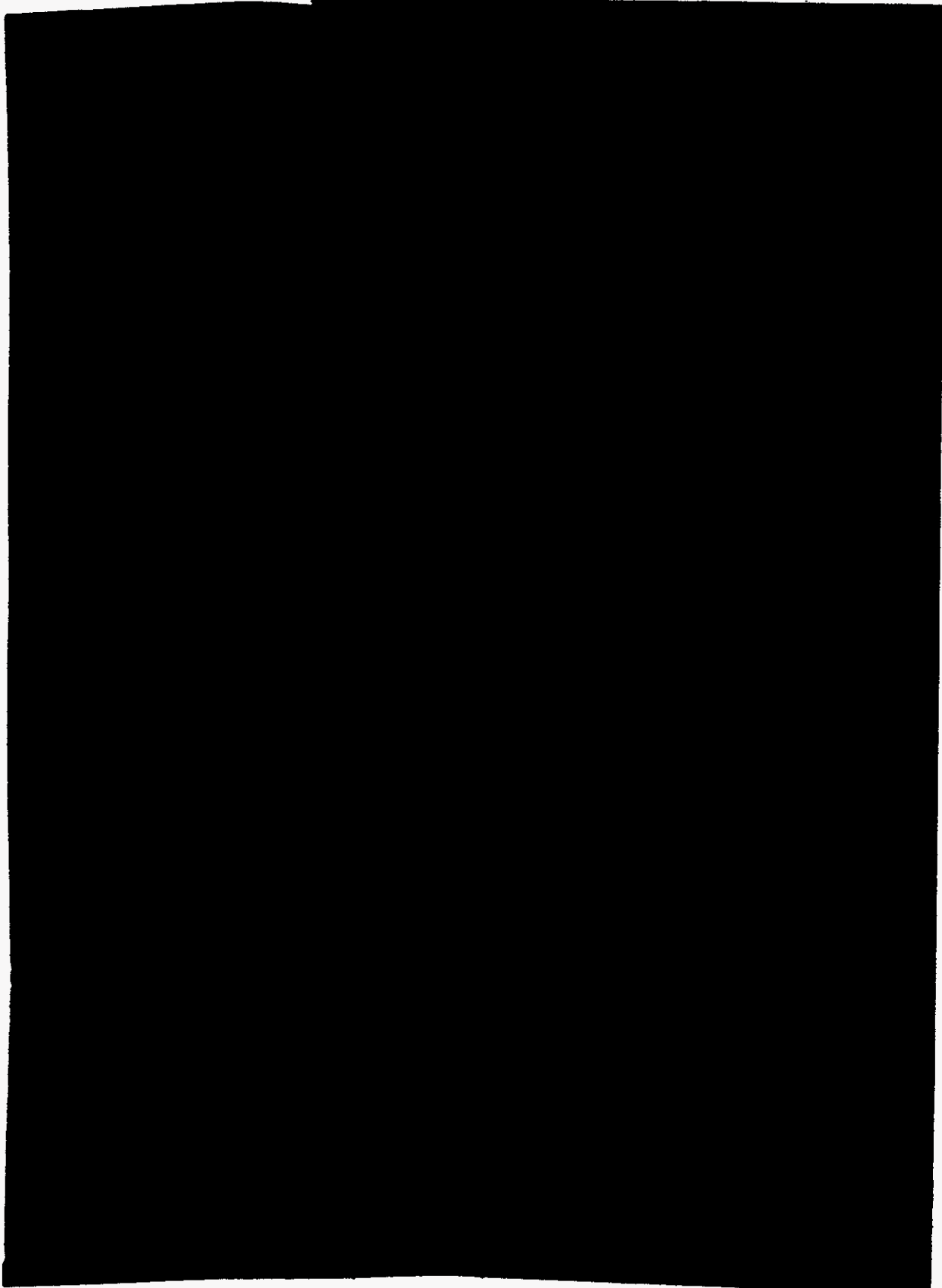
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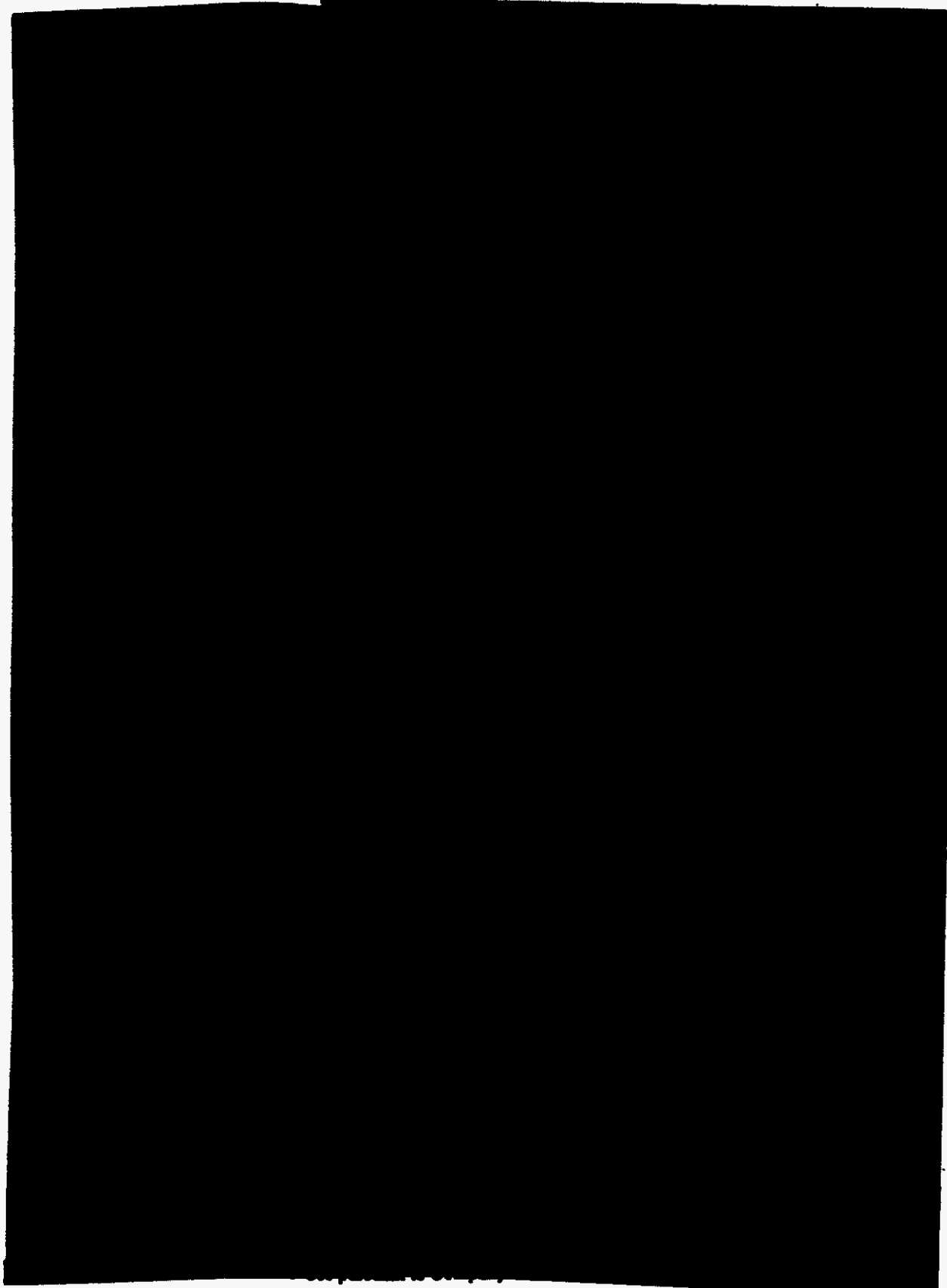
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1 separate trunk groups should be used, or some SESS® OSPS development may be needed. The need
2 and the associated effort is being reassessed.

3 It should be noted, however, that without development, the routing is still OK by (a) routing 0- and
4 00- traffic on separate trunk groups if it is required to separate the traffic at the OSPS, or (b) via the
5 same trunk group if traffic separation is not required.

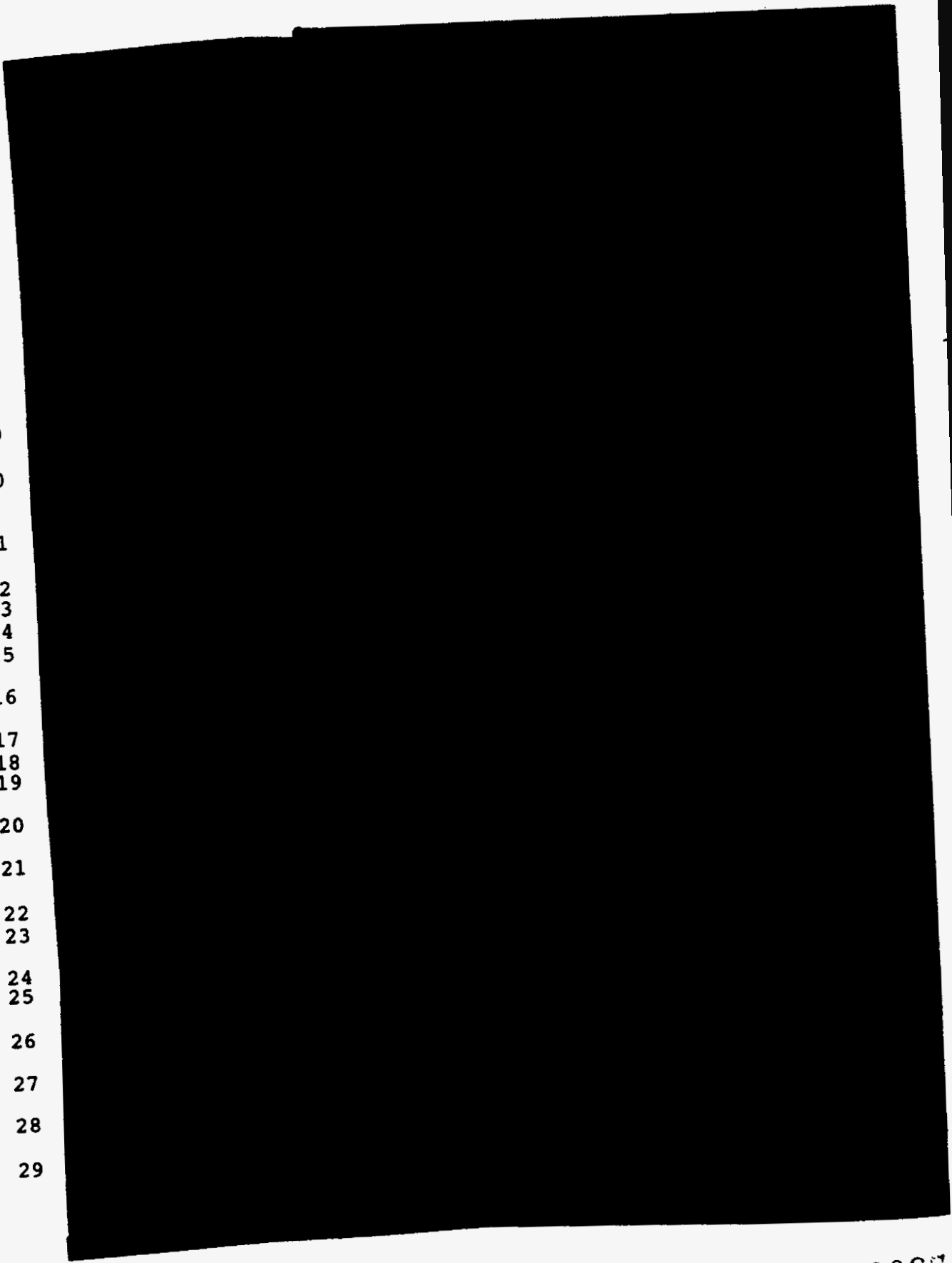
- 6 • The routing solution described in this document should be viewed as an interim solution in the LEC
7 Resale environment since
- 8 a) it would require LEC to agree to this routing.
 - 9 b) it would require LEC to provision each AT&T customer.
 - 10 c) there are some other issues for negotiation with LEC.
11 (e.g. resolve access AMA record handling).
- 12 • In the LEC Resale environment, there is a need for an industry-wide push for LEC commitment to
13 provide competing local carriers ability to route these calls.
- 14 • Other vendor switches would most likely (although we have not verified on their switches) be able to
15 handle the same routing since ONLY BASIC, EXISTING switch capabilities are used. These
16 capabilities should be available in all switches today. It is anticipated that there is some degree of
17 variation in the implementation steps for a vendor switch, similar to the differences between the
18 SESS® and IA ESS™ solution as described in the preceding section on "Access Architecture".
- 19 • When OS calls are routed by the LEC to the AT&T platform, there must not be any signaling delay
20 that makes call setup time longer.
- 21 • Audit / measurement capabilities must be available.

22 Bear in mind that having the LEC to agree to routing our local "0+" and "0-" calls is not going to be easy
23 since (a) there is work (provisioning and maintenance of customer lines, some billing process) involved,
24 and (b) conflict of business interest. However, the technical solution does exist and that is a favorable
25 bargaining point.

26 12. FUTURE WORK (LCM)

27 There is an on-going effort to evaluate other means of routing local traffic from the LEC End Office to the
28 AT&T SESS® OSPS in the LEC Service Resale environment.

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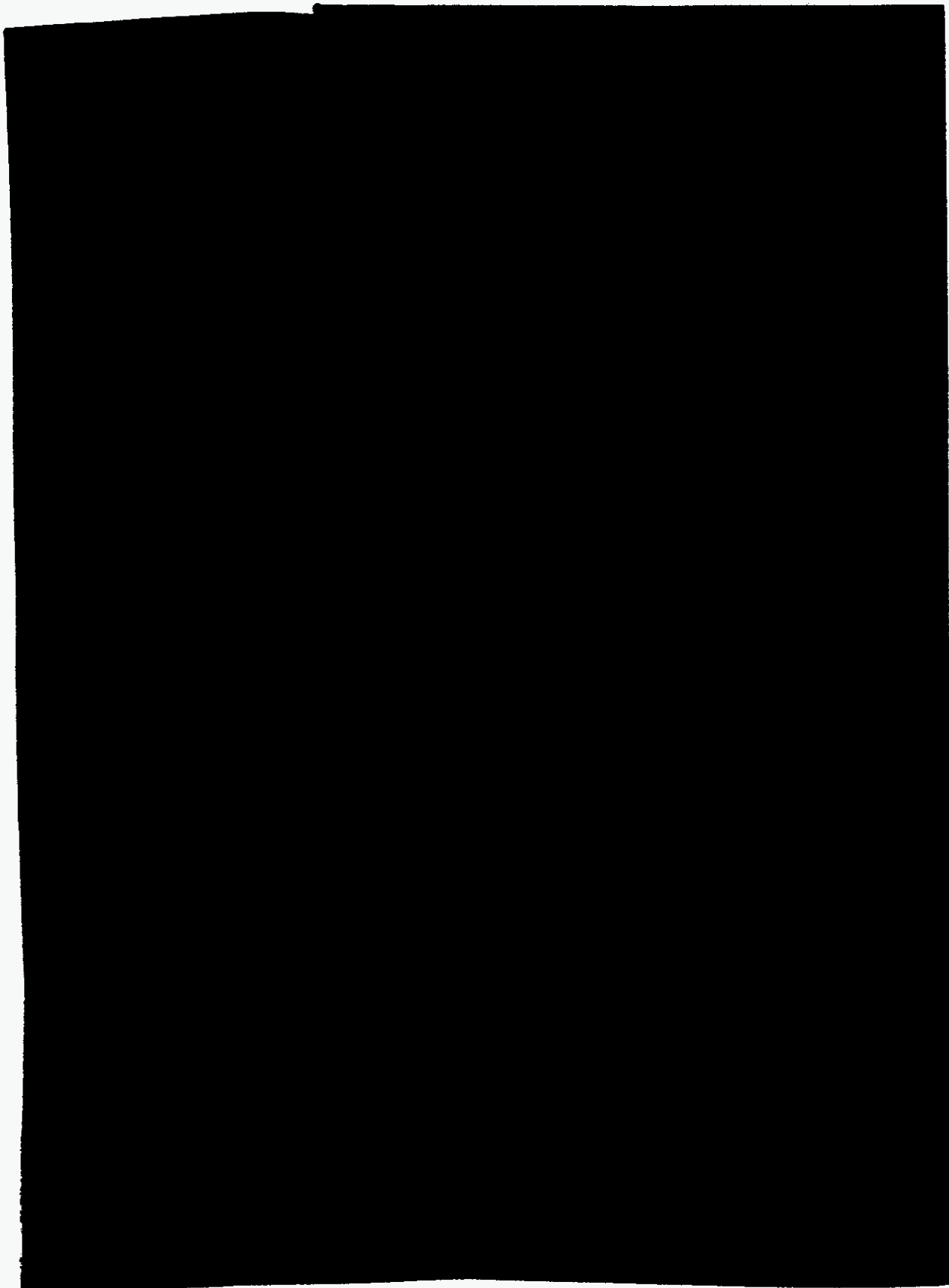
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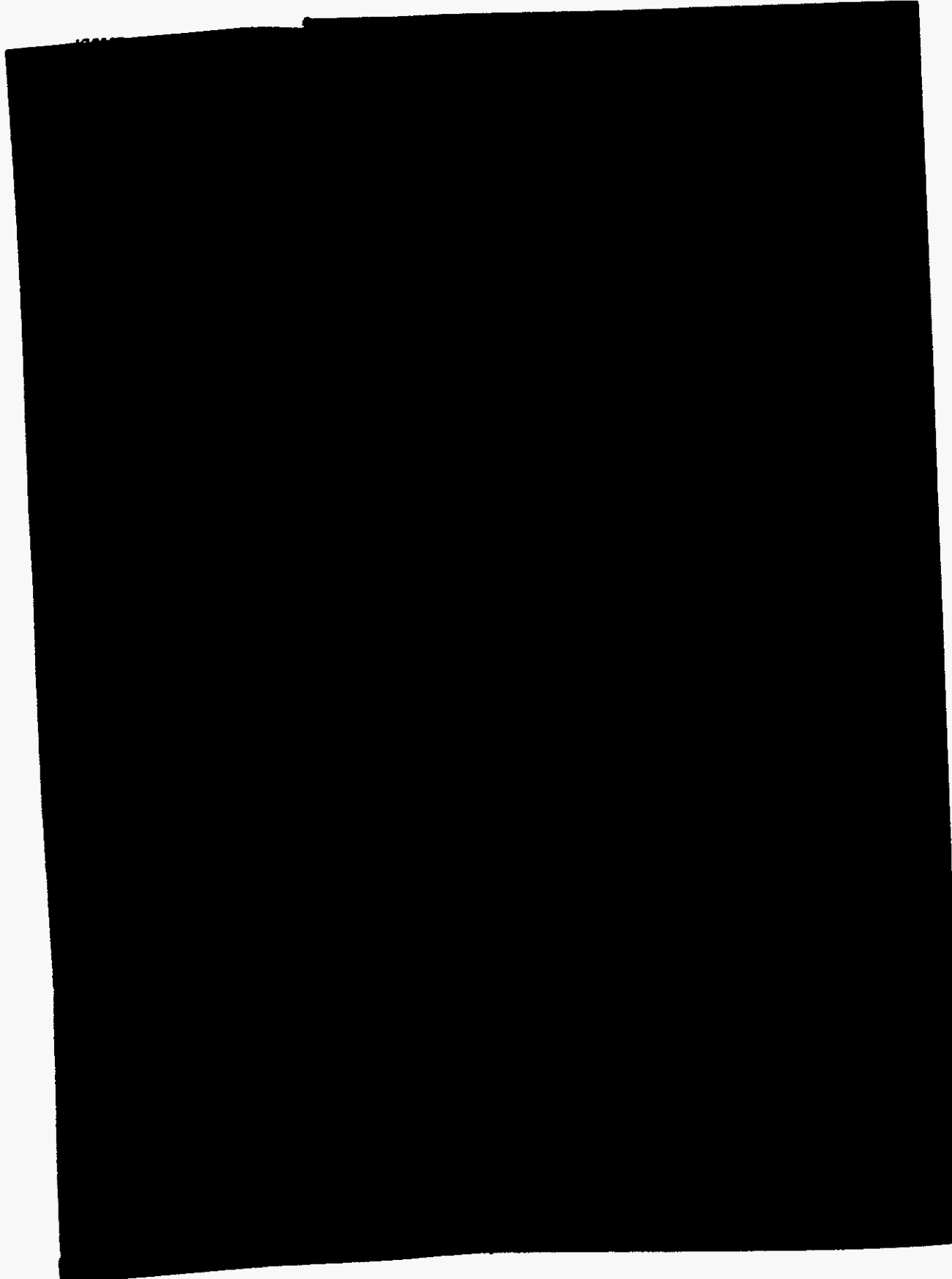
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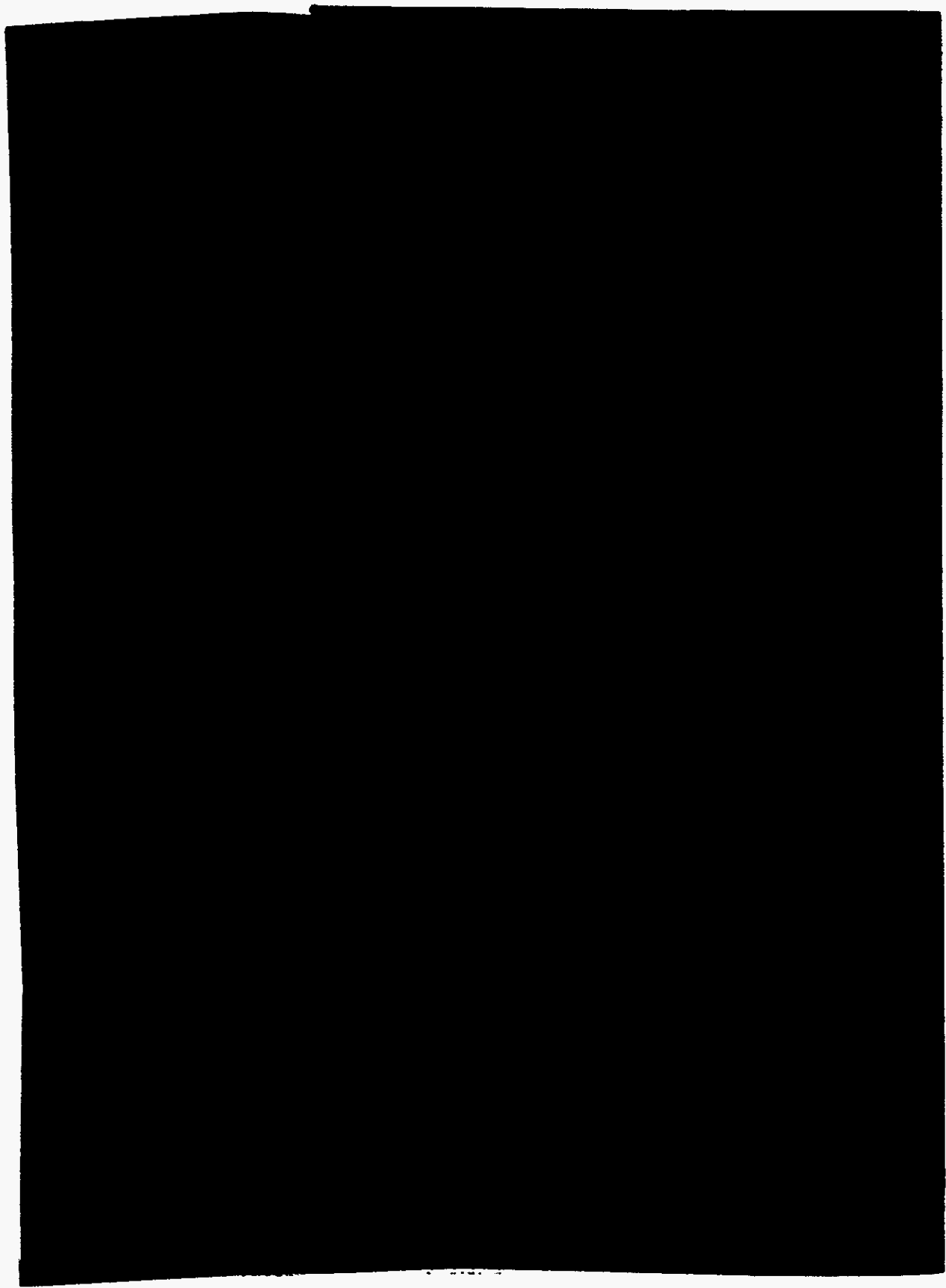
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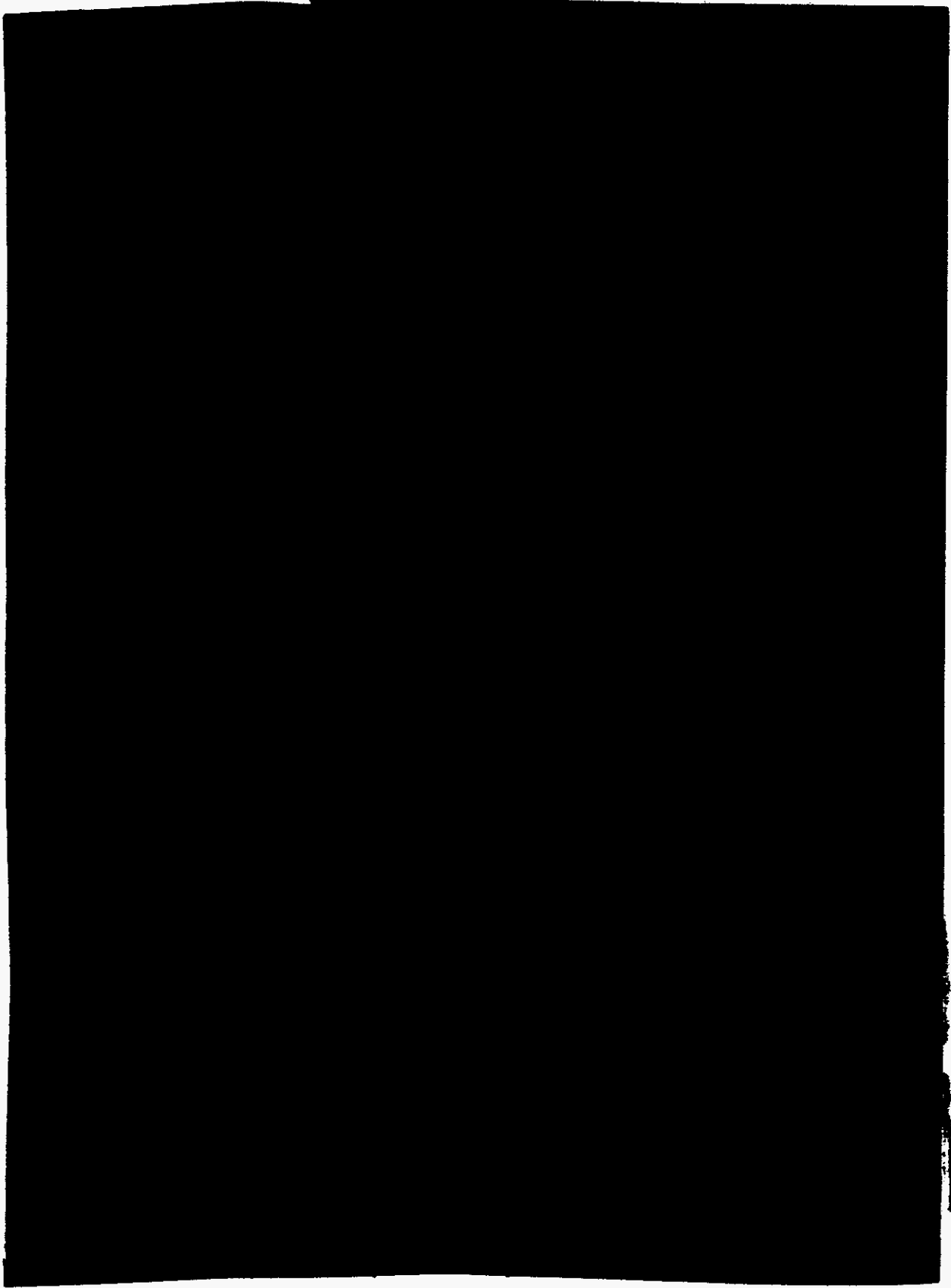
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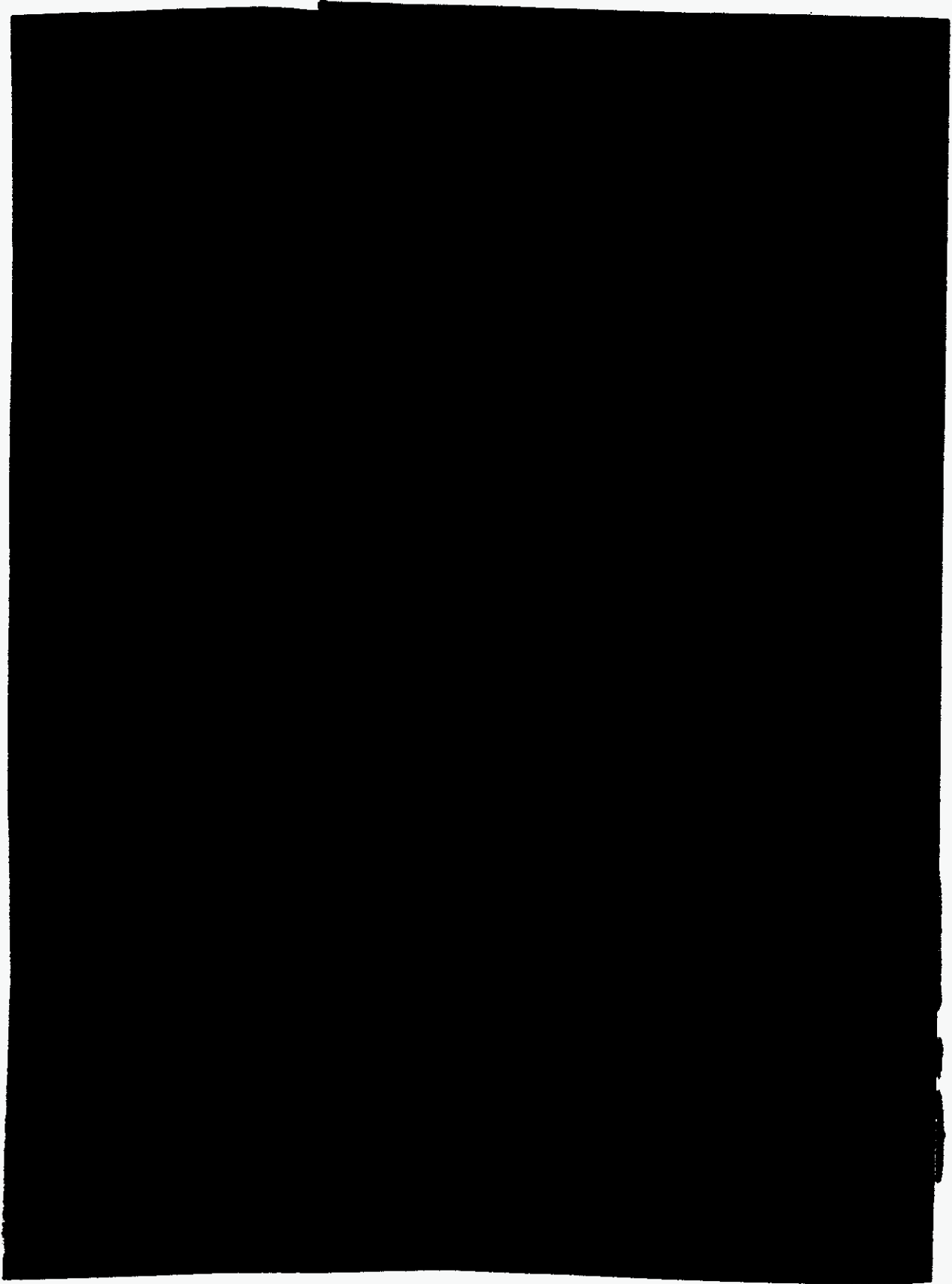
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1 15. GLOSSARY

| | | |
|----|----------|--|
| 2 | ACCS | Automatic Calling Card Service |
| 3 | ACS | Accessible Communications Service |
| 4 | ACQS | Automatic Charge Quotation System |
| 5 | ACTS | Automatic Coin Toll Service |
| 6 | AILS | Automatic Inward Line Screening |
| 7 | ALEC | Alternate Local Exchange Carrier |
| 8 | AMA | Automatic Message Recording |
| 9 | ANI | Automatic Number Identification |
| 10 | ANIF | Automatic Number Identification Fail |
| 11 | AP | Automated Position |
| 12 | ASN | AT&T Switched Network |
| 13 | AT | Access Tandem |
| 14 | BILLDATS | Billing Data Acquisition and Transport System |
| 15 | BLV | Busy Line Verification |
| 16 | CAP | Competitive Access Provider |
| 17 | CAT | Consolidated Access Trunking |
| 18 | CICADA | Completion of InterLATA Calls Accessing Directory Assistance |
| 19 | CLD | Consumer Long Distance |
| 20 | COC | Carrier of Choice |
| 21 | CPDL | Call Processing Data Link |
| 22 | CSC | Call Servicing Center |
| 23 | CSE | Carrier Selection Enforcement |
| 24 | CSIDS | Call Servicing Information Delivery System |
| 25 | DA | Directory Assistance |
| 26 | DACC | Directory Assistance Call Completion |
| 27 | DMOQ | Direct Measure of Quality |
| 28 | DTMF | Dual Tone Multifrequency |
| 29 | EI | Emergency Interrupt |
| 30 | EIS | Extended Inband Signaling |
| 31 | EMI | Electronic Message Interchange |
| 32 | EO | End Office |
| 33 | FGC | Feature Group C |
| 34 | FGD | Feature Group D |
| 35 | IB | Inband |
| 36 | ICO | Independent Companies |
| 37 | IIB | Indeterminate Information Bureau |
| 38 | IPIC | IntraLATA PIC |
| 39 | IXC | interexchange carrier |
| 40 | LBS | Local Billing System |
| 41 | LD | Long Distance |

| | | |
|----|-------------------------|--|
| 1 | LEC | Local Exchange Company |
| 2 | LERG | Local Exchange Routing Guide |
| 3 | LIDB | Line Information Database |
| 4 | LNP | Local Number Portability |
| 5 | LRN | Local Routing Number |
| 6 | LS | Listing Service |
| 7 | LSDB | Listing Service Database |
| 8 | LSO | Local Switch Office |
| 9 | LSP | Local Service Provider |
| 10 | MECH | More Efficient Call Handling |
| 11 | MDF | Main Distributing Frame |
| 12 | MFJ | Modification of Final Judgment |
| 13 | MLOS | Multi-Lingual Operator Service |
| 14 | MOS | Modified Operator Service |
| 15 | MPS | Message Processing System |
| 16 | MW | Multi Wink |
| 17 | NAI | Network Access Interrupt |
| 18 | NPA | Numbering Plan Area |
| 19 | OAS | Originating AT&T Switch |
| 20 | OLI | Originating Line Indication |
| 21 | OLS | Originating Line Screening |
| 22 | ONI | Originating Number Identification |
| 23 | OS | Operator Service |
| 24 | OSPS | Operator Service Position System |
| 25 | OWS | Operator Work Station |
| 26 | POP | Point of Presence |
| 27 | PSM | Position Switching Module |
| 28 | PTC | Presubscribed Toll Carrier |
| 29 | RCF+ | Remote Call Forwarding Plus |
| 30 | RICS | Recorded Information Collection System |
| 31 | RISLU | Remote Integrated Services Line Unit |
| 32 | RTNR | Real Time Network Routing |
| 33 | RTRS | Real Time Rating System |
| 34 | RTU | Right To Use |
| 35 | SA | Special Applications |
| 36 | SDN | Software Defined Network |
| 37 | SM | Switching Module |
| 38 | SNOW-R | Service Now - Routing |
| 39 | SNOW-T | Service Now - Trunking |
| 40 | T&A | Toll and Assistance |
| 41 | TCS | Terminating Code Screening |
| 42 | T&CS | Time and Charges Service |
| 43 | VDT | Visual Display Terminal |
| 44 | VRCP | Voice Recognition Call Processing |
| 45 | I. INTRODUCTION (LCM) | |

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| 3 | 1.3 Terminology (ALL) | 4 |
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Southern Region

Jay M. Bradbury
Manager

Room 12W47
Promenade II
1200 Peachtree St., NE
Atlanta, GA 30309
404-810-8005

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April 2, 1996

Suzie Lavett
BellSouth
Room E5G 3535 Colonnade Parkway
Birmingham, Alabama 35243

HAND DELIVERED

Dear Suzie:

This letter confirms that the following information which was shared with you, and identified at the time of disclosure, during our conference call of Friday, March 22, 1996, is proprietary and confidential.

AT&T estimates that by year end 1996, it will be sending [redacted] orders per business day to BellSouth for resale services and that this volume will grow to [redacted] orders per business day by mid year 1997. This is a forecast of future events, and as such is subject to variation dependent upon many factors, including the wholesale price of the services. It is our feeling that these estimates could vary by as much as plus or minus 20%.

It is our belief that order volumes of this magnitude can only be handled via electronic interfaces. To meet our customer service requirements, we would like to begin joint testing of these electronic interfaces on or about July 1, 1996. We will need your commitment to and descriptions of your proposed electronic interfaces by April 15, 1996.

As you agreed prior to the sharing of this information, it is for use by BellSouth only for the purposes of negotiating an interconnection agreement with AT&T under the Telecommunications Act of 1996, and only by BellSouth's representatives who have a "need to know" regarding our negotiations and the implementation of agreements reached in those negotiations.

Yours truly,

200734

ADMINISTRATIVE

1 April 10, 1996

2 MEMORANDUM

3 TO: Suzie Lavett

4 FROM: Jay Bradbury 

5 SUBJECT: TSR Implementation Timeline

6 Here is the Total Services Resale Implementation Timeline which I drew and we discussed
7 on Monday, April 8.

200803

1 **TOTAL SERVICES RESALE IMPLEMENTATION TIMELINE**

| 2 PHASE | PHASE 0 | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 |
|---------------------------------|---------------------------------------|--------------------------------------|----------------------------|-----------------------------|-------------------------|
| 3 PHASE NAME | OBTAINING AGREEMENT 4 IN PRINCIPLE | DEVELOPMENT AND OPERATIONAL TRIAL | SERVICE READINESS TRIAL | SERVICE DELIVERY RAMP UP | GENERAL AVAILABILITY |
| 5 INTERVALS | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 6 VOLUME OF ACCOUNTS | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 7 | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 8 | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 9 | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 10 | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 11 AT&T REQUIRED 12 TIMELINE | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 13 BEST CASE TIMELINE | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| 14 WORST CASE TIMELINE | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

290804

AT&T PROPRIETARY AND CONFIDENTIAL
SUBJECT TO THE 4/2/96 CONFIDENTIALITY AGREEMENT BETWEEN AT&T AND BELLSOUTH

APRIL 10, 1996
IMB



CSG Market Development

1200 Peachtree St.
Atlanta, GA 30309

1 4/29/96

2 Suzie Lavett (VIA FAX 529-7496)
3 BellSouth
4 Room E56
5 3535 Colonnade Parkway
6 Birmingham, AL 35243

7 Dear Suzie:

8 As we committed last week, in an effort to provide BellSouth information which might help influence the
9 outcome of your electronic interface business case, we are providing the attached analysis.

10 The attached spreadsheet provides an analysis of the projected labor costs of our Customer Network
11 Service Center (CNSC). The CNSC will conduct all ordering, provisioning, and maintenance activities
12 required to interface with BellSouth in support of AT&T Local service. This analysis, which is based on
13 the best information available to date, is derived from service demand projections, time and motion studies,
14 and observed frequency of certain service activities. The analysis compares several different operational
15 modes: 1) fully mechanized two way electronic interface between CNSC and BellSouth, 2) Partially
16 mechanized one way electronic interface from CNSC to BellSouth, and 3) Fully manual process with paper
17 work orders prepared and faxed between the CNSC and BellSouth. [Note that for the purposes of this
18 analysis, electronic interfaces do not describe real time electronic access to BellSouth systems and
19 information, which remains AT&T's desired end state. Instead, electronic interfaces describe the
20 electronic passage of data between companies and automatic "flow through" to downstream systems within
21 AT&T. (e.g.: EDI interfaces currently under consideration by BellSouth.)]

22 After reviewing the attached, you will find that this preliminary analysis:

- 23 1. More clearly quantifies the projected AT&T local service demand previously shared with
24 BellSouth by J. Bradbury. (for AT&T's first year in the local services resale business)
- 25 2. Clearly depicts the order of magnitude of difference in the resources required to support
26 customers in manual, semi-electronic, and fully electronic modes.
- 27 3. Demonstrates the significant cost savings gained with electronic interfaces.

28 In order to accurately quantify the specific costs associated with the long term electronic interfaces which
29 would provide AT&T real time access to BellSouth systems/information (ECI), AT&T would need to
30 partner with BellSouth as we suggested in our 4/24 Core Team meeting. AT&T continues to be willing to
31 collaborate with BellSouth in order to finally make positive progress with the electronic interface issue
32 after eight months of discussion.

33 Sincerely,

34 Mason Fawzi
35 AT&T Negotiations Program Manager

36 cc: P. Foster

200895

PRELIMINARY
CUSTOMER NETWORK SERVICE CENTER
BELL SOUTH TSR HEADCOUNT ANALYSIS
CONNECTIVITY OPTION CNSC to LSP
HEADCOUNT REQUIREMENTS & LABOR COSTS

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SUMMARY (estimated CNSC HC costs per order)

| | ANNUAL VOLUME | ESTIMATED CUMULATIVE LABOR COSTS | ESTIMATED LABOR \$'S per UNIT | COST DIFFERENTIAL per UNIT | ESTIMATED WORKTIME per ORDER |
|---|---------------|----------------------------------|-------------------------------|----------------------------|------------------------------|
| FULLY MECHANIZED TWO WAY ELECTRONIC INTERFACE CNSC ↔ LSP. | | | | | |
| PARTIALLY MECHANIZED ONE WAY ELECTRONIC INTERFACE CNSC → LSP. | | | | | |
| MANUAL PROCESS PAPER ORDERS MANUALLY PREPARED & FAXED | | | | | |

DETAIL CNSC HC & LABOR COST ESTIMATES

| | | MONTH 1 | MONTH 2 | MONTH 3 | MONTH 4 | MONTH 5 | MONTH 6 | MONTH 7 | MONTH 8 | MONTH 9 | MONTH 10 | MONTH 11 | MONTH 12 |
|---|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| 1) FULLY MECHANIZED (TWO WAY INTERFACE) (CNSC ↔ LSP) | CUMULATIVE LINES | | | | | | | | | | | | |
| | HEADCOUNT | | | | | | | | | | | | |
| | CUMULATIVE LABOR COSTS | | | | | | | | | | | | |
| 2) PARTIALLY MECHANIZED (ONE WAY INTERFACE) (CNSC → LSP) | CUMULATIVE LINES | | | | | | | | | | | | |
| | HEADCOUNT | | | | | | | | | | | | |
| | CUMULATIVE LABOR COSTS | | | | | | | | | | | | |
| 3) MANUAL PROCESS (PAPER WORK ORDERS) (PAPER WORK ORDERS FAXED TO & FROM CNSC & LSP) | CUMULATIVE LINES | | | | | | | | | | | | |
| | HEADCOUNT | | | | | | | | | | | | |
| | CUMULATIVE LABOR COSTS | | | | | | | | | | | | |

ASSUMPTIONS:

- This analysis was prepared to demonstrate the Headcount and cost efficiencies gained through an electronic interface between the CNSC and BellSouth.
- Headcount and labor cost estimates were derived based on time study data of the CNSC provisioning and maintenance processes. Allowances were made to adjust the process time to reflect the three different connectivity scenarios discussed below.
- The Bell South Headcount analysis presents the Headcount requirements for three different connectivity scenarios between the CNSC and BellSouth.
 - Scenario 1 - assumes a fully mechanized process between the CNSC and BellSouth with a two way electronic interface between the CNSC and BellSouth. Work Orders electronically flow between the various Work Centers.
 - Scenario 2 - assumes a partially mechanized process between the CNSC and BellSouth with a one way electronic interface between the CNSC and BellSouth. Work Orders flow electronically from the CNSC to BellSouth. BellSouth to the CNSC is via Fax or E-Mail.
 - Scenario 3 - assumes a completely manual process between the CNSC and BellSouth. Manually prepared Work Orders will be faxed to and from the CNSC to BellSouth.
- Headcount and labor cost estimates represents Occupational, Supervisor and Management staffing requirements only. The estimate does not account for other Mgmt Positions such as Database Mgr's, Network Mgr's, etc. required to support the forecasted volume.
- Headcount and labor cost estimates include allowances for Disconnects, Rejects, Changes, Jeopardies, Suspends, Restores and Maintenance for troubles and provisioning errors.
- The analysis is proprietary and intended for AT&T internal use only.
- The estimated Headcount and labor cost requirements are preliminary and therefore subject to change. Refinements will occur concurrent with the receipt of any new information concerning connectivity option, demand, or other.

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200836

*Electronic
Interface*

A. Mint



CSG Market Development
5/23/96

1200 Peachtree St.
Atlanta, GA 30309

To: S. Lavett

From: P. Foster

RE: AT&T Forecast and Letter

I wanted to make you aware of an omission from the 5/22/96 forecast cover letter that I faxed to you last night. The one word omission may materially impact your interpretation of the letter. The last sentence in the third paragraph on the second page should read as follows: "Put another way, [significant] TSR discounts and effective operational interfaces which deliver service concurrently and at parity with BellSouth will make TSR a more attractive approach for AT&T".

As a result, I am re-sending a revised copy of the letter and will hand deliver the original when we meet later this week.

P. Foster

200928



CSG Market Development

1200 Peachtree St.
Atlanta, GA 30309

1 May 22, 1996

2 Via Fax and Hand Delivery

3 Suzie Lavett
4 Lead Negotiator
5 BellSouth
6 3535 Colonnade Parkway
7 Birmingham, AL

8 Dear Suzie:

9 This letter responds to your May 6, 1996 memo in which you request revised AT&T
10 forecast data for BellSouth's use in resource and other planning for electronic interfaces.

11 First, I would like to comment on your statement that "It would assuredly be imprudent
12 for BellSouth to continue to work toward these and other electronic interfaces unless
13 significant and protracted resale demand exists." The Telecommunications Act of 1996
14 does not condition an ILEC's obligation to provide comparable capabilities to requesting
15 carriers on any sort of demonstration of a "resale demand". Also, as we have discussed, in
16 competitive markets, suppliers must often take risks without the luxury of guaranteed
17 returns. These issues aside, we have provided the attached forecast data which represents
18 our current best assessment of demand for AT&T local service through December 2001.
19 As you can see, AT&T's forecasted demand is sufficiently large that management of
20 wholesale operations with manual processes would be inefficient and would not meet
21 AT&T's needs for comparable service and capabilities. Other reseller demand will further
22 impact BellSouth's ability to manage manual interface processes efficiently.

23 Secondly, BellSouth should not assume that Total Services Resale (TSR) is only a short-
24 term alternative for AT&T. The "BellSouth Study" (which we have not seen), which
25 concluded that resale was not a viable long-term alternative for AT&T, has apparently
26 failed to recognize that the wholesale market mandated by the Act is likely to be a robust
27 one, and may have prejudiced BellSouth's desire to pursue robust operational interfaces in
28 support of TSR. It would be helpful if BellSouth would provide the studies which
29 concluded that TSR was not a viable long-term alternative for AT&T. If BellSouth would
30 provide this information, it would provide a solid basis for further discussions aimed at
31 understanding the future wholesale supplier/buyer relationship between our companies.

32 As you have requested, the attached data provides projected demand for both residence
33 and business classes of service through December 1997. Although not requested, we have

200929

1 also attached annual forecasts through 2001. [AT&T is providing the attached forecast
2 under the conditions outlined in the confidentiality agreement executed between BellSouth
3 and AT&T. Accordingly, this information should be protected from BellSouth's retail
4 units.] Note that we have provided both a "high" and "low" demand assessment. Due to
5 the uncertainties associated with a market that is monopoly based and in pre-competitive
6 stages, and the facts discussed below, we are unable to project within a +/- 5% range as
7 you request. For our joint planning purposes, you may assume that the volume is
8 distributed approximately in proportion to the size of your business in each state within the
9 region. Obviously, the actual distribution may be impacted by differing TSR discounts,
10 access charges, competitive alternatives, etc.

11 The amount of this forecast that will take the form of "unbundled loops", "unbundled
12 ports", and the other unbundled elements desired by AT&T is dependent on BellSouth's
13 pricing decisions for these unbundled elements and for TSR. These BellSouth pricing
14 decisions will directly impact AT&T's network build decisions.

15 As was discussed at the May 8, 1996 Core Team meeting, AT&T is a rational consumer.
16 Accordingly, we will make "build versus buy" decisions which maximize benefits for
17 AT&T customers and shareholders. As I am sure you are aware, it is not economically
18 prudent for AT&T to overbuild entire incumbent LEC networks. In addition, capital
19 earmarked for AT&T local network construction has not been fully allocated to specific
20 markets. The attractiveness of the TSR discount and the degree to which BellSouth's
21 wholesale processes allows AT&T to effectively serve its customers will be key in
22 influencing such decisions. Put another way, significant TSR discounts and effective
23 operational interfaces which deliver service concurrently and at parity with BellSouth will
24 make TSR a more attractive approach for AT&T.

25 We are providing this information in spite of the uncertainties of a market that will mature
26 from a monopoly to competition:

- 27 1. Until AT&T can quantify TSR discounts, access price reductions, and the efficiency of
28 operational interfaces provided by BellSouth, we cannot determine where to deploy
29 capital.
- 30 2. AT&T will provide local service through a mosaic approach, utilizing TSR, unbundled
31 network elements, ALEC leases, and full AT&T build scenarios to reach customers.
32 Because we are creating the capability to support a variety of unbundled network
33 elements and network configurations provided by multiple suppliers, the degree to
34 which we utilize unbundled network elements from BellSouth will depend upon TSR
35 discount levels, the prices of facilities-based competitors, the scope of their networks,
36 and the competitiveness of BellSouth's unbundled network elements compared to
37 other facilities-based competitors. Because the number of facilities-based competitors
38 is fluid, and the relative cost of unbundled network elements and TSR is currently
39 unknown, we cannot fully project the degree to which it will be rational for AT&T to
40 utilize unbundled network elements.

1 In closing, I find it necessary to respond to comments in your May 6 memo regarding the
2 work that BellSouth has completed in support of developing operational interfaces to
3 accommodate the initial entry of alternative local service providers. While some progress
4 has been made, BellSouth's progress to date falls short of AT&T's expectations and
5 BellSouth's obligations under the Act and that which would be required for any world
6 class business to service its customers effectively. I believe the operational interfaces
7 developed by BellSouth to date rely primarily upon manual processes, fax transmissions,
8 and manual data entry. Additionally, while BellSouth has assessed the resources required
9 to provide number administration via ATLAS for resellers, this small step was
10 accomplished only after 8 months of negotiations. Additionally, AT&T has yet to actually
11 gain access to ATLAS. I am, however, encouraged by the cooperative activity
12 undertaken by our companies within the last two weeks to develop EDI interfaces. I hope
13 that the progress made in this area will be swift and significant.

14 If you have any questions or comments, please do not hesitate to call.

15 Sincerely,



16 Preston Foster
17 Lead Negotiator
18 AT&T

200931

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| AT&T Demand View - High (BellSouth Territories) | | | | | |
|--|-------|------|------|------|------|
| | | 1998 | 1999 | 2000 | 2001 |
| CONSUMER | | | | | |
| | Lines | | | | |
| BUSINESS | | | | | |
| | Lines | | | | |
| TOTAL | | | | | |
| | Lines | | | | |

| AT&T Demand View - Low (BellSouth Territories) | | | | | |
|---|-------|------|------|------|------|
| | | 1998 | 1999 | 2000 | 2001 |
| CONSUMER | | | | | |
| | Lines | | | | |
| BUSINESS | | | | | |
| | Lines | | | | |
| TOTAL | | | | | |
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AT&T Demand View (BellSouth Territories)

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High Estimate

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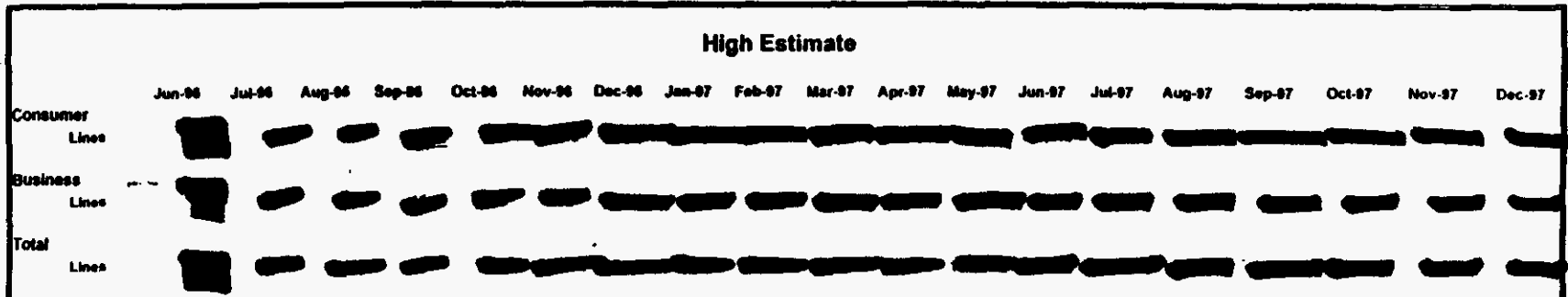
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Low Estimate

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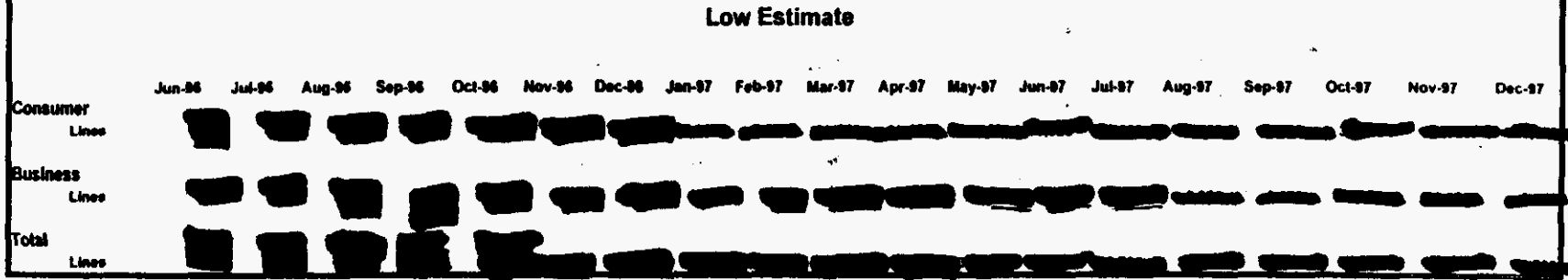
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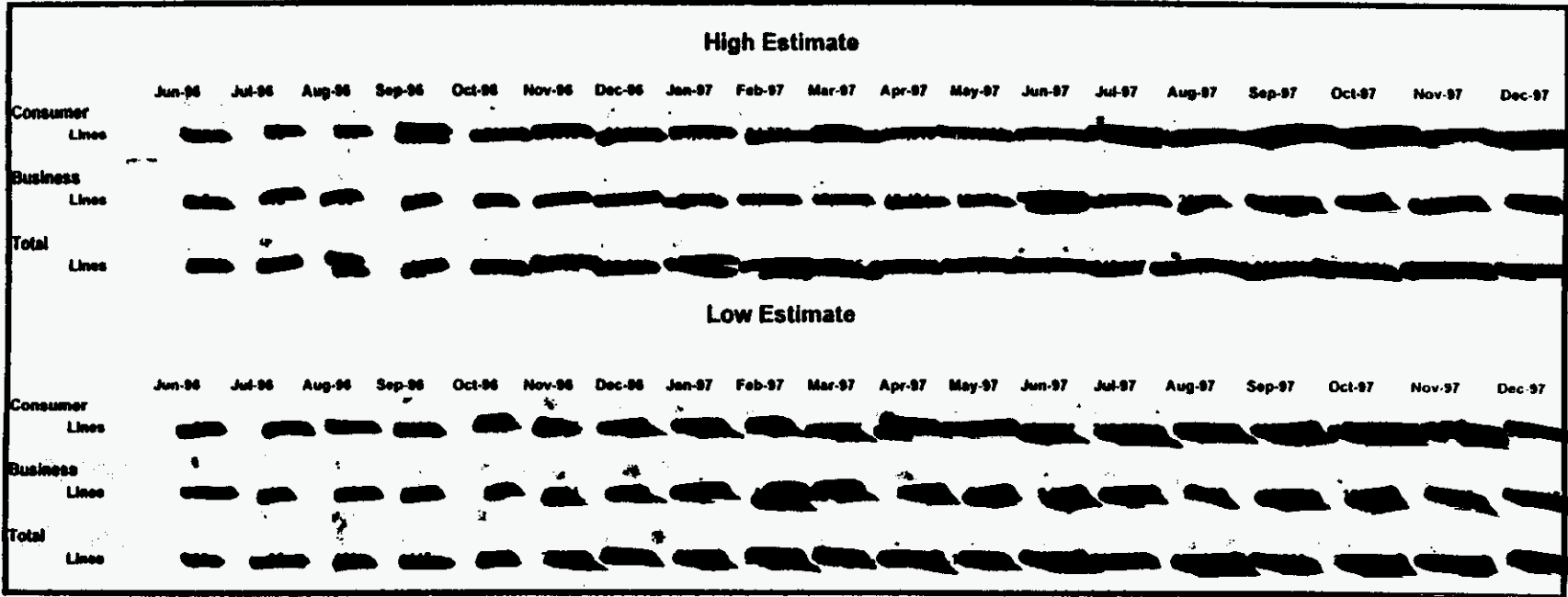
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200933

1 DRAFT - Subject to revision
2 Preliminary Forecast

3 **AT&T Demand View**
4 **(BellSouth Territories)**
5 **Cumulative Total By Month**



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200934

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LAST TRANSACTION REPORT FOR HP FAX-700 SERIES

VERSION: 01.00

2 FAX NAME: NEW MARKET DEVELOPMNT
3 FAX NUMBER: 4048108967

DATE: 23-MAY-96
TIME: 06:35

| 4 | DATE | TIME | REMOTE FAX NAME AND NUMBER | DURATION | PG | RESULT | DIAGNOSTIC |
|---|--------|---------|----------------------------|----------|----|--------|--------------|
| 5 | 23-MAY | 06:31 S | 404 420 0031 | 0:03:29 | 8 | OK | 663840100184 |

6
7 S=FAX SENT
O=POLLED OUT(FAX SENT)

8 TO PRINT THIS REPORT AUTOMATICALLY. SELECT AUTOMATIC REPORTS IN THE SETTINGS MENU.
9 TO PRINT MANUALLY. PRESS THE REPORT/SPACE BUTTON. THEN PRESS ENTER.

1 FAX COVER SHEET



3 AT&T / CSG MARKET DEVELOPMENT

4 TO: SUZIE LAVETT FAX: () 420-0031

5 VOICE: () 529-7496

6

7 DATE: 5/23/96 (8) Pages Including Cover

8 From: Mason Fawzi, Access Planning Manager
9 1200 Peachtree Street
10 Room 10144
11 Atlanta, GA 30319

12 Voice: (404)810-8574

13 Fax: (404)810-8477

14 Comments: REVISION
15 _____
16 _____
17 _____
18 _____
19 _____
20 _____
21 _____
22 _____

1 UNBUNDLED NETWORK ELEMENT FORECAST TEAM

2 ORIGINAL TEAM ROSTER

3 Doug Ripley
4 Pat Baker
5 Mike Triebert
6 Joe Spencer
7 Robert Oakes
8 Fred Perrin
9 Robert McGrew
10 Jim Pierson

11 MERGED FORECAST TEAM ROSTER

12 ALL OF THE ABOVE, PLUS:
13 Michelle Augier
14 Bob Cavallo
15 Ray Crafton
16 Stephanie Marinac
17 Phyllis Worcester
18 Donna Hassebrock
19 Kirk Odegaard
20 Tom McGinty
21 Karen Dowdle

1

Assumptions for Local Demand Forecast*

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|------------|------------|------------|
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] |

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UNBUNDLED NETWORK ELEMENT FORECAST TEAM

MISSION STATEMENT

TO DEVELOP A FORECAST OF AT&T CUSTOMER DEMAND FOR EACH OF THE UNBUNDLED NETWORK ELEMENTS PROPOSED BY AT&T FOR NEGOTIATION WITH BELL SOUTH TELEPHONE AND SELECTED INDEPENDENT TELEPHONE COMPANIES (RANGE ESTIMATES OR DATA POINTS BOUNDED WITH CONFIDENCE AND VARIANCE FROM MEAN ARE OK) NO LATER THAN 5/01/96 FOR HANDOFF THROUGH AT&T WIRELESS TO OUR NEGOTIATING TEAMS. OUR TEAM'S OUTPUT IS EXPECTED TO BE A MATRIX OF "HOW MUCH", "WHICH ELEMENTS", BY MARKET, INITIALLY AND FOR THE NEXT FIVE YEARS.

1

SOURCES OF INPUT

| 2 | Information | Type | Source |
|----|--|------|------------|
| 3 | 1. Proposed Plan Of Record II, (Tier I, II, III Markets) | Data | H.S. |
| 4 | Bennett | | |
| 5 | 2. Current MSA Population | Fact | D. Gibson |
| 6 | 3. A. CSB consumers, by market | Fact | K. Dowdle |
| 7 | B. Business DS-0 equivalents, by market | Fact | K. Dowdle |
| 8 | 4. Market growth projections over 5 year period | Data | K. Dowdle |
| 9 | 5. Market Share objective | Data | R.E. Allen |
| 10 | 6. Connectivity Options, by LSO (Screening Tool output) | Data | P. Baker |
| 11 | 7. List of Unbundled Network Elements | Data | H.Q. |
| 12 | M.C. | | |
| 13 | 8. Market Boundaries | Data | S.S. LSO |
| 14 | 9. U.N.E. Training | Data | H.Q. |
| 15 | [REDACTED] | | |
| 16 | 11. Market/Connectivity Options Timeline | Data | S.S. |
| 17 | POR | | |
| 18 | 12. Ranging Parameters | Data | Central |
| 19 | Territory, TSR Forecast Methodology | | |

1

Unbundling Assumptions

2

Basic Team Assumptions:

3

We will rely on known fact and data, wherever available as a foundation for our modeling tool and allocation factors.

4

5

We will modify or model/tool based upon any source of new fact and data that will displace one or more assumptions the team has made, and rerun the tool to determine the magnitude and sensitivity of the change(s).

6

7

8

We will have been effective in our identification of resources and expertise required to be inclusive and successful.

9

10

Aggregating assumptions in process rather than at the front of the design process will not impact the validity of the team's output.

11

12

[REDACTED]

13

Tool Design:

14

The tool will be built by using a process of determining percentages that will apply to the type of option that may require unbundled LEC elements [REDACTED]

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16

[REDACTED]

17

The tool will be built by using a process of determining the percentages of customers will use a particular unbundled element. [REDACTED]

18

19

[REDACTED]

20

The tool will take the forecasted total customers (provided by Karen Dowdle) and apply to that, the percentages presented above. This will provide the total amount of customers that will use the particular network unbundled element.

21

22

23

[REDACTED]

24

Network Elements

25

We will present an estimate to the LEC composed of 17 network elements

26

Two Designs:

1 • We have found two network designs that require a forecast for ordering unbundled
2 elements: AT&T build, and ALEC lease arrangement. The team has identified the
3 southern cities into three tiers: [REDACTED]
4 respectively.

5 • [REDACTED]
6 [REDACTED]

7 • [REDACTED]
8 [REDACTED] deployment.

9 • [REDACTED]

10 • [REDACTED]

11 **The Tool Output:**

12 • The intent is for each unbundled element to provide the number of customers
13 (Consumer) and DS0s (Business) that will utilize that element. We will not provide
14 the usage. For example we will not provide the number of database dips. We will
15 provide the number of customers who may need to make data base dips. BellSouth
16 must apply their knowledge to the numbers provided to them. Bell can deduce an
17 average number of dips per customer and apply this to the number of customers we
18 provide to them.

19 • Demand stated as a product of the tool will always be end of period rather than mid-
20 year, start of year or mean.

21 • The output is for a local service forecast only.

22 • Access is not unbundled.

23 [REDACTED]

24 [REDACTED]
25 [REDACTED]

26 [REDACTED]
27 [REDACTED]
28 [REDACTED]

29 **Network Element Assumptions**

- 1 • Loop combination is used for local loop because we do not know the LEC's network
2 design.
3 • [REDACTED]
4 [REDACTED]
- 5 • 100% of customers will use common elements (for things like 911, intraLATA,
6 Tandem access.)
- 7 • We will use the LSO percentages to determine the percent of customers that will use
8 [REDACTED] as a final methodology for service.
- 9 • The local loop option includes : [REDACTED]
- 10 • AT&T will provide Bell South a 9 state forecast.

11 [REDACTED]

12 [REDACTED]

13 [REDACTED]

- 14 • Preliminary analysis and tool outputs will assume:

15 [REDACTED]

16 the year percentage option use begin.

17 [REDACTED]

18 [REDACTED]

19 [REDACTED]

20 [REDACTED]

21 [REDACTED]

- 22 • For tier two - Where AT&T [REDACTED]

23 [REDACTED]

24 [REDACTED]

25 [REDACTED]

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BellSouth TSR FOR TIER TWO CITIES - BUSINESS

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| Summary Page | | <i>BellSouth 9 State View</i> | | | | |
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| | | 1997 | 1998 | 1999 | 2000 | 2001 |
| <i>Element</i> | | | | | | |
| NID | | | | | | |
| Loop Dist | | | | | | |
| Loop Con/Mult | | | | | | |
| Loop Feeder | | | | | | |
| Loop Combination | | | | | | |
| Local Switching | | | | | | |
| Operator Serv. | | | | | | |
| DA | | | | | | |
| Common Trans | | | | | | |
| Ded Trans | | | | | | |
| Data Switching | | | | | | |
| Dig Cross Con | | | | | | |
| SS7 M. Transfer | | | | | | |
| SST | | | | | | |
| SCP /data bases | | | | | | |
| Tandem Switching | | | | | | |
| AIN | | | | | | |

* The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth

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Summary Page

BellSouth 9 State View

| | 1997 | 1998 | 1999 | 2000 | 2001 |
|------------------|------|------|------|------|------|
| Element | | | | | |
| NID | | | | | |
| Loop Dist | | | | | |
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| SS7 M. Transfer | | | | | |
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| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
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* The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth

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Market Type :

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Year

1997

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Residence

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| Operator Serv. | | | |
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| Common Trans | | | |
| Ded Trans | | | |
| Data Switching | | | |
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Business

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| Operator Serv. | | | |
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TAMPA

Market Type :

Year

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Residence

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| Data Switching | | | | |
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Market Type : [REDACTED]
Year 1999

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| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
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Market Type : [REDACTED]

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Residence

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Business

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AT&T Proprietary Restricted
Draft
(for internal purposes only)

45

Market Type : [REDACTED]

Year

2001

JLS
6/3/96

200978

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Residence

| Element | | | | TOTAL |
|------------------|--|--|--|-------|
| NID | | | | |
| Loop Dist | | | | |
| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

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Business

| Element | | | | TOTAL |
|------------------|--|--|--|-------|
| NID | | | | |
| Loop Dist | | | | |
| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

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| Residence |
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AT&T Proprietary Restricted
Draft
(for internal purposes only)

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Percent Element Use

Residence

Element

NID
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

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Percent Element Use

Business

Element

NID
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

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Summary Page



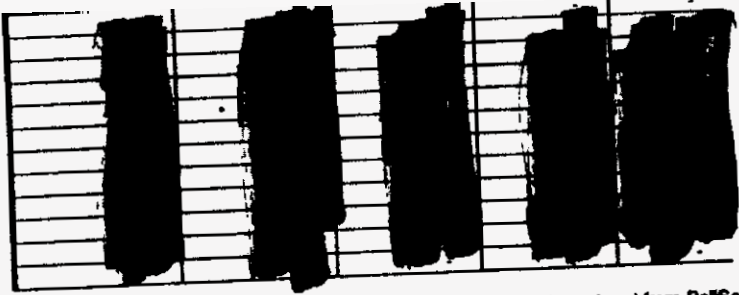
| <i>Element</i> | 1997 | 1998 | 1999 | 2000 | 2001 |
|------------------|------|------|------|------|------|
| NID | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |

AT&T Proprietary Restricted
Draft
(for internal purposes only)

200980

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Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP/data bases
Tandem Switching
AIN



* The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth

200981

14
15
16
17
18

Market Type : [redacted]
Total For All Years

AT&T Proprietary Restricted
Draft
(for internal purposes only)

Residence

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-------|
| [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | [redacted] | TOTAL |
|------------|------------|------------|------------|------------|------------|-------|

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Element
NTU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

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Business

Element
NTU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

| | | | | TOTAL |
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BellSouth 9 State View

Market Type : [REDACTED]

Year

1997

200983

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Residence

| Element | [REDACTED] | | | | TOTAL |
|------------------|------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Business

| Element | [REDACTED] | | | | TOTAL |
|------------------|------------|------------|------------|------------|------------|
| NIU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP /data bases | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

AT&T Proprietary Restricted 44
Draft 45
(for internal purposes only)

BellSouth 9 State View

Market Type : [REDACTED]

JLS
6/3/96

1

Year

1999

200984

2

Residence

| | | | | TOTAL |
|------------------|------------|------------|------------|------------|
| [Redacted] | | | | |
| Element | | | | |
| NIU | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Dist | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Con/Mult | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Feeder | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Combination | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Local Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Operator Serv. | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| DA | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Common Trans | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Ded Trans | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Data Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Dig Cross Con | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SS7 M. Transfer | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SST | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SCP /data bases | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Tandem Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| AIN | [Redacted] | [Redacted] | [Redacted] | [Redacted] |

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Business

| | | | | TOTAL |
|------------------|------------|------------|------------|------------|
| [Redacted] | | | | |
| Element | | | | |
| NIU | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Dist | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Con/Mult | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Feeder | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Loop Combination | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Local Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Operator Serv. | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| DA | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Common Trans | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Ded Trans | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Data Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Dig Cross Con | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SS7 M. Transfer | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SST | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SCP /data bases | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Tandem Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| AIN | [Redacted] | [Redacted] | [Redacted] | [Redacted] |

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BellSouth 9 State View

Market Type : [Redacted]

Year

1999

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Residence

| Element | | | | | TOTAL |
|------------------|--|--|--|--|-------|
| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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Business

| Element | | | | | TOTAL |
|------------------|--|--|--|--|-------|
| NIU | | | | | |
| Loop Dist | | | | | |
| Loop Con/Mult | | | | | |
| Loop Feeder | | | | | |
| Loop Combination | | | | | |
| Local Switching | | | | | |
| Operator Serv. | | | | | |
| DA | | | | | |
| Common Trans | | | | | |
| Ded Trans | | | | | |
| Data Switching | | | | | |
| Dig Cross Con | | | | | |
| SS7 M. Transfer | | | | | |
| SST | | | | | |
| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

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42
43

BellSouth 9 State View

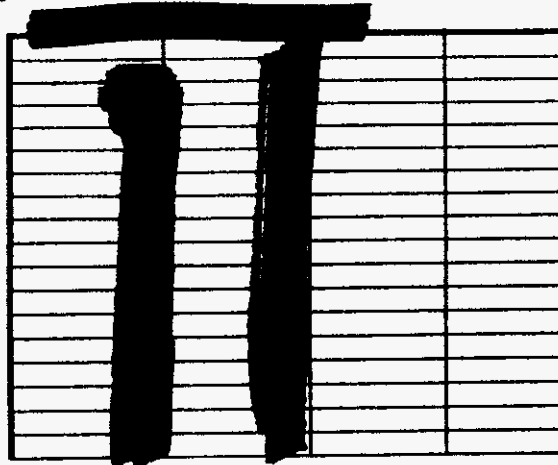
Market Type : [REDACTED]

Year

2000

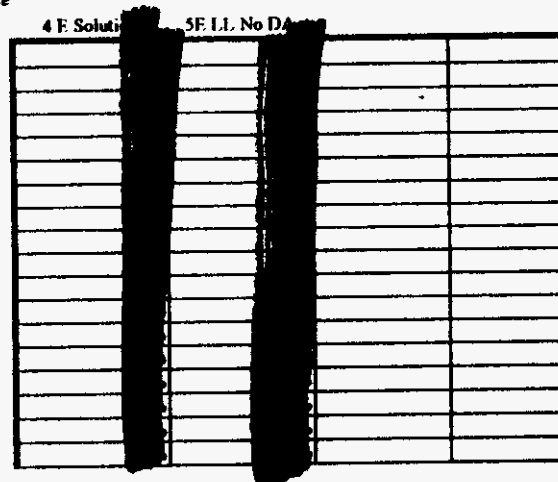
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Percent Element Use
Residence
Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN



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Percent Element Use
Business
Element
NIU
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans
Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN



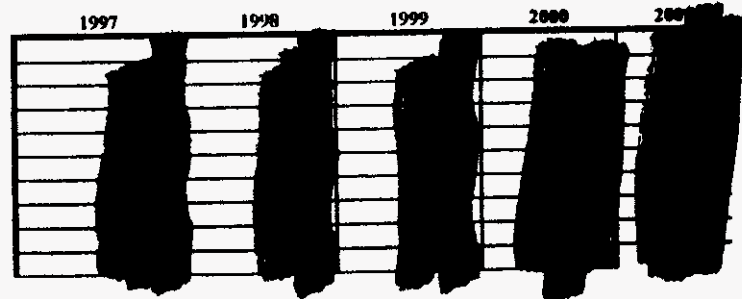
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Summary Page

BellSouth 9 State View

Tier 1 Markets

Element
NRI
Loop Dist
Loop Con/Mult
Loop Feeder
Loop Combination
Local Switching
Operator Serv.
DA
Common Trans



AT&T Proprietary Restricted
Draft
(for internal purposes only)

200938

JLS
6/3/98

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Ded Trans
Data Switching
Dig Cross Con
SS7 M. Transfer
SST
SCP /data bases
Tandem Switching
AIN

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| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Markets include:

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| [REDACTED] |
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* The numbers above represent the number of lines by year that AT&T forecasts will be ordered from BellSouth

200939

17
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24

BellSouth 9 State View

Market Type : [REDACTED]

Total For All Years

AT&T Proprietary Restricted
Draft
(for internal purposes only)

Residence

Elem
NIU
Loop Dist

| | | | | | TOTAL |
|------------|------------|------------|------------|------------|------------|
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

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Business

| | | | | TOTAL |
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| <i>Elemen</i> | | | | |
| NRU | | | | |
| Loop Dist | | | | |
| Loop Con/Mult | | | | |
| Loop Feeder | | | | |
| Loop Combination | | | | |
| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
| SST | | | | |
| SCP /data bases | | | | |
| Tandem Switching | | | | |
| AIN | | | | |

BellSouth 9 State View

Market Type : [REDACTED]

Year

1997

200931

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Residence

| | | | | TOTAL |
|------------------|------------|------------|------------|------------|
| <i>Element</i> | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| NRU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP/data base | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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Business

| | | | | TOTAL |
|------------------|------------|------------|------------|------------|
| <i>Element</i> | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| NRU | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Dist | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Con/Mult | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Feeder | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Loop Combination | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Local Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Operator Serv. | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| DA | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Common Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Ded Trans | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Data Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Dig Cross Con | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SS7 M. Transfer | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SST | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| SCP/data base | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| Tandem Switching | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| AIN | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

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| Loop Con/Mult | | | | |
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| Local Switching | | | | |
| Operator Serv. | | | | |
| DA | | | | |
| Common Trans | | | | |
| Ded Trans | | | | |
| Data Switching | | | | |
| Dig Cross Con | | | | |
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Business

| Element | | | | TOTAL |
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| Dig Cross Con | | | | |
| SS7 M. Transfer | | | | |
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| SCP /data bases | | | | |
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BellSouth 9 State View

Market Type : [REDACTED]

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Summary Page

Tier 2 Markets

Element
NIU
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Loop Combination
Local Switching
Operator Serv.
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BellSouth 9 State View

AT&T Proprietary Restricted
Draft
(for internal purposes only)

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| Loop Cov/Mult | | | | | |
| Loop Feeder | | | | | |
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| SCP /data bases | | | | | |
| Tandem Switching | | | | | |
| AIN | | | | | |

Wise



William J. (Jim) Carroll
Vice President

Room 4170
1200 Peachtree St., NE
Atlanta, GA 30309
404 810-7262

1 June 5, 1996

2 **Via Hand Delivery**

3 Mr. Charles B. Coe
4 BellSouth Telecommunications, Inc.
5 675 West Peachtree Street, NE - Suite 4514
6 Atlanta, Georgia 30375

7 **SUBJECT: Proposed Agreement on Total Services Resale ("TSR") Issues**

8 **Dear Charlie:**

9 **We have established an objective to try to reach closure on issues related to TSR by July 1,**
10 **1996. In furtherance of this objective, the attached proposal builds on the discussions we**
11 **have had to date.**

12 **I want to emphasize that I am making a "package proposal." No single item or sub-group**
13 **of items stands alone. This proposal is contingent upon BellSouth's acceptance of the**
14 **entire proposal.**

15 **I also emphasize that this entire proposal represents AT&T Proprietary Restricted**
16 **information containing commercially sensitive material whose disclosure to unauthorized**
17 **persons could harm AT&T. It is being provided under the terms of our confidentiality**
18 **agreement, entered into for purposes of negotiations under the Telecommunications Act of**
19 **1996, and therefore, may not be disclosed or used in any way by BellSouth in any**
20 **regulatory proceedings or with any other parties and should be restricted to individuals**
21 **within BellSouth with a "need to know" regarding the negotiations.**

22 **Even where disclosure is restricted to those having a "need to know" for purposes of our**
23 **negotiations, I caution BellSouth against disclosing single items or subgroups on a**
24 **standalone basis. Again, this is a package proposal and should always be represented by**
25 **BellSouth as such.**

26 **I look forward to your expeditious response.**

27 **Sincerely yours,**

28 **Attachments**

201011

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**AT&T/BellSouth Southern Region
Total Services Resale ("TSR") Proposal**

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This outlines a region-wide proposal to resolve all issues related to Avoidable Costs in connection with TSR pursuant to the Telecommunications Act of 1996 (the "Act"). AT&T proposes the following:

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- **Region-wide Base Line ("B.L.") discount on all services available for [REDACTED] herein defined as prices actually charged by BellSouth to its customers) for both residence and business. The proposal embodied herein is based on a combination of analytical data (AT&T's Cost Model) and business judgment. This judgment is without the benefit of service specific avoidable cost studies by BellSouth (which, to date, BellSouth has not provided) and without the underlying, supporting cost data that would be required to validate such study results. If additional data becomes available that supports requesting more service specific discounts or different discount levels before execution of this proposal, this proposal may be withdrawn or modified by AT&T.**

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- **The B.L. discount will be indexed to BellSouth's Retail Rates. As those prices are reduced, the B.L. discount and other discounts described herein will apply to the lower prices.**

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- **Electronic interfaces will be operational by September 1, 1996. Until electronic interfaces are proven operational in a consistent manner that provides operational and customer parity to AT&T and its customers for ninety consecutive days, the following Operational Parity discounts will apply in addition to the B.L. discount and any Volume and Term discounts discussed below. The DMOQs (performance metrics) upon which the Operational Parity discounts will be eliminated will be mutually agreed upon by AT&T and BellSouth.**

1

AT&T Proprietary

Contains Commercially Sensitive Information

This Proposal May Be Disclosed By BellSouth Only to Employees or Representatives of BellSouth with a "Need to Know" Pursuant to the BellSouth/AT&T Confidentiality Agreement Entered into for Purposes of Negotiations Under the Telecommunications Act of 1996. Disclosure to Any Other Party without the Written Permission of AT&T is Prohibited.

201012

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Operational
Parity
Discount
3%
3%
3%
3%
3%
15%

Area for Additional Discount

- 1) Pre-Service Ordering Interfaces
- 2) Service Order Processing and Provisioning Interfaces
- 3) Directory Listing and Line Information Data Base
- 4) Service Trouble Reporting Interfaces
- 5) Daily Local Usage Data

TOTAL

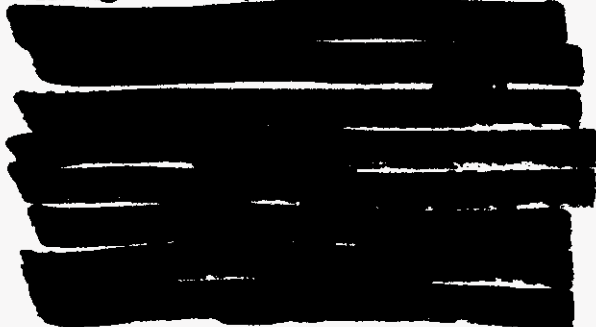
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- Volume and Term ("V&T") commitments will increase the Base Line discounts as depicted below.

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Minimum Commitment (3 Year Term)

| Effective Date@ | Lines (M)# | B.L.+V&T Discount* |
|--------------------|---------------|-----------------------|
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@Monthly Commitments start on the effective date. Commitments are for cumulative resold lines (basic residence lines plus business lines). The 1/1/99 Commitment is for twelve months.

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#If commitment levels are achieved at an earlier date than the Dates of Minimum Commitment, then that B.L. + V&T Discount will be awarded at the earlier date(s).

29

*Discounts are off BellSouth's Retail Rates.

1 **This proposal is contingent upon the following:**

2 **1. Acceptance of this comprehensive package in total including the**
3 **“New Offer” column in the Attachment, which includes unresolved**
4 **TSR operational issues which have been identified to date.**

5 **2. Agreement on appropriate terms and conditions for resale of local**
6 **services including the following:**

7 **-Converting agreements reached to date on TSR operational**
8 **issues into mutually acceptable contract language.**

9 **-AT&T’s right to use the resold services for its own use or resale**
10 **to others for purposes of offering services of any kind.**

11 **-AT&T’s right to obtain local services pursuant to discounts**
12 **available by virtue of Commission orders or in any other**
13 **BellSouth agreements and/or applicable tariffs which AT&T**
14 **finds more favorable and count those purchases toward**
15 **fulfillment of its volume commitments.**

16 **3. Acceptable resolution of issues related to Unbundled Network**
17 **Elements (“UNEs”).**

18 **4. BellSouth will notify AT&T of any agreements to resell local**
19 **services or to provide unbundled network elements into which it enters**
20 **where the prices, terms, and/or conditions are different than those**
21 **which have been made available to AT&T. In that event, AT&T shall**
22 **have the option to substitute those prices, terms, and conditions in**
23 **whole or in part for the relevant prices, terms, and conditions which**
24 **had been offered to AT&T.**

25 **Attachment**

1 THIS REPRESENTS A PROPOSAL FROM AT&T TO BELL SOUTH IN CONNECTION
 2 WITH THE NEGOTIATIONS UNDER THE FEDERAL TELECOMMUNICATIONS ACT OF 1996

| DESCRIPTION OF ISSUE | NEW OFFER |
|--|--|
| 4 Services available for resale | All current and new BellSouth services shall be available for unrestricted resale at the agreed to discount except as may be noted below. For example, AT&T requests BellSouth to remove all tariff restrictions which prohibit or limit the aggregation and resale of services to unaffiliated users. |
| 10 Grandfathered | Existing - AT&T would consider negotiating only specific current Grandfathered services which would be available for resale at the agreed to discounts. Future - AT&T proposes that prior to filing requests for Grandfathering additional services at the PSC, these plans would be reviewed and agreed to by AT&T. |
| 16 Lifeline & Link-Up | AT&T proposes that Lifeline/Link-Up service be provided for resale at the Retail Rates to the end user, less the agreed to discounts. |
| 19 N11 (except 411, 611 and 911) | BellSouth agrees to not offer of new N11 services for 12 months from the date of any agreement, but that the existing N11 offerings would not be available for resale. |
| 22 911, E911 | BellSouth agrees to provide the necessary unbundled elements in order for AT&T to provide a comparable 911/E911 offering to government agencies. Such unbundled elements would be available by 1/1/97. |
| 26 Contract Service Arrangements, Special Arrangements, and Promotions | BellSouth will make all CSAs, SAs, and Promotions available for resale on a "switch as is" (transfer of the contract) basis until the "B.L. + VAT" discount is at or exceeds 40%, after which CSAs, SAs, and Promotions would not be available for resale. |
| 31 State Specific Discount Plans and Services (e.g., Louisiana Education Discount) | BellSouth agrees that these services are available for resale at the agreed to discounts. |
| 35 Services with no discount | |
| 36 Installment Billing | AT&T will agree to the non-availability of Installment Billing for resale, provided that AT&T and BellSouth reach acceptable payment terms as part of the terms and conditions of the commercial contract executed between the two companies. |
| 41 Non-Recurring Charges | OUTPLC - BellSouth will charge [redacted] for "switch as is" change, until electronic interfaces are operational, at which time BellSouth will charge the TSLRIC cost of processing a "switch as is" order. All Other - BellSouth agrees that non-recurring services will be available for resale at the agreed to discounts. |
| 47 Inside Wire Maintenance Program | AT&T proposes that this service be provided for resale at the agreed to discounts. |

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201015

THIS REPRESENTS A PROPOSAL FROM AT&T TO BELL SOUTH IN CONNECTION
WITH THE NEGOTIATIONS UNDER THE FEDERAL TELECOMMUNICATIONS ACT OF 1996

| | |
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| Notification Process | |
| Existing and New Services | <p>Price Changes - BellSouth agrees to put in place an electronic system to provide for notice of proposed price changes 30 days before they are proposed to become effective. The target date for process definition and review is 9/1/96. If the process is agreed to, the implementation effective date would be 10/1/96.</p> <p>New Services, Withdrawals of Existing Services, Other Changes to Existing Services - AT&T proposes that BellSouth provide AT&T advance notification of new services, discontinued services and changes to existing services concurrent with BellSouth's internal notification for process, system, and operational changes.</p> |
| Technology and Operational Changes | BellSouth agrees to put in place an electronic system to notify AT&T at least six months before any new technology or operational changes are made. |
| Branding | |
| General Employee Contact with AT&T Customers | AT&T proposes that BellSouth produce a documented plan around its methods and procedures, training and approaches that would be used with BellSouth's personnel to assure that BellSouth meets AT&T's branding requirements. The process, methods and procedures, training and scripts will be reviewed and agreed to by AT&T and BellSouth by 9/1/96. |
| Installation and Repair Contact with AT&T Customers | <p>AT&T proposes that AT&T provide branded material to BellSouth Installation and Repair forces to use for customer contact/leave behind material at no charge to BellSouth. AT&T will stock and replenish the material to assure availability at the locations designated by BellSouth.</p> <p>AT&T requests that BellSouth support the arrangement by pre-notification of material supply exhaust to AT&T so stock is readily available. Specific conditions and assurance that the stock is used properly by technicians will be agreed to by BellSouth and AT&T by 9/1/96.</p> |
| Operator Services and Directory Assistance | AT&T proposes that Operator Services and Directory Services brand to AT&T where AT&T utilizes BellSouth resold Operator and Directory Services. AT&T would review the scripts used by BellSouth operators as they handle operator services and directory assistance. |
| Electronic Interfaces - Providing Customer Usage Data in Unrated Format | BellSouth has agreed to provide unrated customer usage data. AT&T requests that BellSouth provide usage data sample prior to 6/5/96, in order for AT&T to analyze. Provided the indicators and elements needed for billing retain the integrity AT&T needs and requires, AT&T will accept BellSouth's unrated messages process of unrated to rated to unrated. |

AT&T Proprietary

Contains Commercially Sensitive Information

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201016

THIS REPRESENTS A PROPOSAL FROM AT&T TO BELLSOUTH IN CONNECTION
WITH THE NEGOTIATIONS UNDER THE FEDERAL TELECOMMUNICATIONS ACT OF 1996

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| OUTPLOC Information | |
| Local service | BellSouth will meet the requirements in full as outlined in AT&T's Local Account Maintenance document dated 3/27/96. |
| Long distance service | Where AT&T is the customer's Local Service Provider, any order changing the customer's PIC is to be sent from AT&T. BellSouth will reject PIC changes from IXCs and notify AT&T of such rejection. |
| Direct Routing to AT&T for Operator Services, Directory Assistance, and Repair | BellSouth agrees to provide direct routing to AT&T, utilizing the best technical solution available. In the event a solution is not forthcoming by 10/1/96, or if the solution cannot be implemented in a specific LSO due to equipment exhaust where additional capacity cannot be added, AT&T will utilize BellSouth operator, directory, and repair services, branded to AT&T as proposed above. |
| Rates to be Applied when AT&T Local Customer Makes a Local/IntraLATA Collect, 3rd Number, or Calling Card Call to a BellSouth Customer | AT&T's position is that the "Originating" Local Service Providers' rates apply; that BellSouth will record the call and send the "unrated" message to AT&T. AT&T would "rate" the call and send it back to BellSouth for billing. |

AT&T Proprietary

Contains Commercially Sensitive Information

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William J. (Jim) Carroll
Vice President

Room 4170
1200 Peachtree Street, N.E.
Atlanta, GA 30309
404 810-7262

1 June 21, 1996

2 Via Hand Delivery:
3 Mr. Charlie B. Coe
4 Group President - Customer Operations
5 BellSouth Telecommunications, Inc.
6 675 W. Peachtree Street
7 Suite 4514
8 Atlanta, Georgia 30375

9 Dear Charlie:

10 We have reviewed BellSouth's pricing proposal received at the close of business on Friday,
11 June 14. In addition, my conversations with you and Scott Schaefer lead me to believe that
12 while you did not make a counter-proposal to my June 5 Local Services Resale ("LSR")
13 proposal, you are interested in the concept of Volume and Term ("V&T") discounts, but as you
14 put it, "not at AT&T's proposed discount levels." Therefore, this letter invites you to submit a
15 counter-proposal for LSR, and at the same time, transmits AT&T's proposal for pricing
16 Interconnection and Unbundled Network Elements ("UNEs"). This proposal is contingent
17 upon achieving an agreement with BellSouth with respect to price in all three of these areas of
18 LSR, Interconnection, and UNEs.

19 Contrary to your beliefs, our June 5 LSR proposal did represent movement from AT&T's
20 publicly advocated Base Line discount of 28% to 30% as proposed in the regulatory arena. In
21 addition, we made specific commitments. We would welcome your counter-proposal.

22 With respect to Interconnection and UNEs, the prices received from you on June 14 are not
23 acceptable. The attachments for Interconnection and UNEs are underpinned by our analysis of
24 BellSouth's responses to data requests and by our own studies. We would welcome the
25 opportunity to discuss the attachments and the June 5 LSR proposal, as well as any counter-
26 proposal which BellSouth might make, as soon as possible.

27 Please understand that our proposals are based on the best intelligence to date. As would any
28 customer, we reserve the right to expand and clarify our needs as better information becomes
29 available. In order to better define our UNEs, we need information requested by our Wayne
30 Ellison of Reg Starks, as outlined at the Core Team meeting on Wednesday, June 19. Please
31 provide the requested information no later than June 26. The following Subject Matter Experts
32 are available by phone and in person to answer questions in the areas identified:

- | | | | |
|----|---------------|-----------------------------|--------------|
| 33 | Mike Guedel | Attachment A (Interconnect) | 404-810-7420 |
| 34 | Wayne Ellison | Attachment A (UNEs) | 404-810-8068 |
| 35 | Neil Brown | June 5 Proposal (LSR) | 404-810-7269 |

201073

1 I emphasize that all AT&T proposals contain AT&T Proprietary Restricted information
2 containing commercially sensitive material whose disclosure to unauthorized persons could
3 harm AT&T. It is being provided under terms of our confidentiality agreement, entered into for
4 the purposes of negotiations under the Telecommunications Act of 1996, and therefore, may
5 not be disclosed or used by BellSouth in any regulatory proceedings or with any other parties
6 and should be restricted to individuals within BellSouth with a "need to know" regarding the
7 negotiations.

8 Even where disclosure is restricted to those having a "need to know" for purposes of our
9 negotiations, we caution against disclosing single items or subgroups on a standalone basis.
10 Again, this is a package proposal and should always be represented as such by BellSouth.

11 I look forward to your expeditious response.

12 Sincerely yours,

A handwritten signature in black ink, appearing to read "Urn" or similar, enclosed within a circular scribble.

13 Copies to: Mr. Scott Schaefer
14 Ms. Suzie Lavett

15 Attachments

201073

1 INTERCONNECTION PRICING PROPOSAL

2 Definitions

3 A. Interconnection (for the purposes of this section) is defined as the act of linking two or more
4 telecommunications networks for the purposes of terminating local telephone calls.

5 B. Total Service Long Run Incremental Cost (TSLRIC) is the cost of the forward looking least
6 cost technology of providing a service, relevant group of services, or basic network functions,
7 given that the company already produces all of its other services. Alternatively, TSLRIC
8 represents the costs avoided if the telecommunications provider had never offered the particular
9 service, group of services, or network function in question.

10 C. Bill and Keep is a reciprocal compensation arrangement whereby the compensation that one
11 company offers to another for the completion of its calls is the agreement to complete the other
12 company's calls in a like manner.

13 Physical Arrangement

14 A. BellSouth will make interconnection arrangements available at all tandem switching and end
15 office switching locations.

16 B. At the discretion of AT&T, local interconnection may be accomplished via one-way local
17 trunks, or two-way local trunks, or AT&T may choose to deliver both local and toll traffic over
18 the same trunk group(s). With respect to the latter scenario, AT&T will have to provide an
19 auditable Percent Local Usage (PLU) to facilitate billing if it desires application of the local
20 interconnection rate.

21 Pricing

22 A. For the first twelve months of this agreement, compensation for the exchange of local traffic
23 will be accomplished on a "bill and keep" basis. Following the first twelve months, at the
24 request of either party, mutual compensation may be set at the TSLRIC that BellSouth incurs in
25 providing the interconnection service on a per minute of use basis. The TSLRIC of
26 interconnection is recognized to be less than [REDACTED] of use. For the first twelve
27 months of implementation of the TSLRIC compensation, each party's payments will be limited
28 [REDACTED] the calculated reciprocal payment on a monthly billing basis.



29 B. In the event, a local call originated by a customer of AT&T traverses a BellSouth (or other
30 third party) tandem switch to be completed to another ALEC, BellSouth (or other third party)

- 1 will be entitled to charge AT&T the TSLRIC associated with the tandem switching function.
2 The TSLRIC of the tandem switching function is estimated to be no more than [REDACTED]
3 minute of use.
- 4 C. Compensation for the termination of toll traffic (or the origination of 800 traffic) between the
5 interconnecting parties will be accomplished through applicable interexchange access charges.
- 6 D. When the completion of a toll call involves both BellSouth and AT&T facilities, standard
7 meet point billing arrangements will apply. For example, if an incoming call traverses Company
8 "A's" tandem switch to be completed at Company "B's" end office switch, then company "A" is
9 entitled to bill the access charges associated with the dedicated transport (from the IXC pop to
10 the tandem) and the tandem switching function (also common transport if applicable, but not the
11 Residual Interconnection Charge). Company "B" is entitled to bill all other applicable switched
12 access charges.
- 13 E. In the event a toll call is completed through an interim service provider's number portability
14 arrangement (remote call forwarding, flexible DID, other) to a Customer of the new Carrier of
15 Record, the new Carrier of Record is entitled to applicable end office terminating switched
16 access charges (e.g., local switching, line termination, carrier common line, residual
17 interconnection charge, etc.). The company forwarding the call will be considered to be
18 adequately compensated through the charges that it receives for porting the number.
- 19 F. BellSouth will include basic white page listings for AT&T residential customers and basic
20 yellow page listings (as well as business white page listings as available to BellSouth customers)
21 for AT&T business customers. BellSouth will include all AT&T customers in its distribution of
22 white and yellow pages. BellSouth will not charge AT&T or AT&T's customers for these
23 services. Additional enhanced directory listings will be made available to AT&T customers at
24 the same rates, terms, and conditions as available to BellSouth customers. AT&T will be
25 responsible for providing BellSouth accurate directory information in an established format and
26 in a timely manner.
- 27 G. This proposal is contingent upon reaching agreement with respect to Local Services Resale
28 (LSR) and Unbundled Network Elements (UNEs).

**AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS**

Attachment B

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|--|---|--|---|
| | | | Recurring | NRC |
| Network Interface Device | Twisted Pair | For 2 or 4-wire termination | None | All States:  |
| | Smart-Jack | T1 Line | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | Fiber | | BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T | |
| | Coax | | BellSouth agrees to provide at direct economic cost upon receipt of a bona fide request from AT&T | |
| Distribution Media (Loop Distribution) | Various capabilities, incl. twisted pair, DS1, DS3, Optical SONET OCn, Analog Radio Freq., Broadband | | AT&T and BellSouth agree to work together to expeditiously resolve issues regarding the provision of this unbundled element, and to reach a resolution satisfactory to both parties. | |
| Loop Concentrator/Multiplexer | Virtual remote terminal @ DS0 and DS1 levels, DLC system offering | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Loop Feeder | Various options, including twisted pair, DS1, Fiber OCn | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Loop Combination | 2W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data, etc. |  No SLC billing by BellSouth to AT&T or its customers | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |

This proposal is contingent upon reaching agreement with respect to Local Services Resale (LSR) and Interconnection.

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|---------------------------|-------------------------------|--|--|--|
| | | | Recurring | NRC |
| Loop Combination, Cont'd. | | | [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | 4W | POTS, Centrex, ISDN, PBX, PL, FX Digital Data, etc. | No SLC billing by BellSouth to AT&T or its customers | |
| | | | All states: [REDACTED] month | See comment under 4W NRC. |
| | DS1 | Terminated on DSX-1 | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | DS3 | Fiber Optic cable | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | Optical SONET OCn | | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | SONET ring, terminated in CO | | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | SONET ring between customers | | | |
| | | | | Dedicated local transport charges apply. |
| | IOC Mileage | LEC office to ALEC office | | |
| | | | [REDACTED] monthly per system plus [REDACTED] per circuit. | [REDACTED] for first system and [REDACTED] for each additional system, plus [REDACTED] per circuit. |
| | Channelization | Converts up to 96 VG loops to DS1 level for connection with ALEC POI. Concentrated or non-concentrated @ option of customer. | | |
| | | | | To the extent BellSouth offers rates to retail customers reflecting distance sensitive loop charges it shall provide loops to AT&T at equivalent charges. This provision applies to both implicit and explicit deaveraged pricing. |
| | Distance sensitive loop rates | | | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|---------------------------------------|---|--|---|
| | | | Recurring | NRC |
| Loop Combination and Sub-Loop Elements | Loop cost variance by geographic area | Wire center, census group, etc. | Proposed loop prices are composite state averages. BellSouth will perform cost studies to determine geographic cost differences, and implement prices that reflect those differences. | |
| Local Switching | Features | Route operator and directory assistance traffic to customer's preferred carrier. | None | None |
| | | Route local, intraLATA, interLATA, international traffic to customer's preferred carrier. | None | None |
| | | Translations to direct AIN queries to AT&T SS7 network, to receive responses, and to continue call handling in accordance with responses. | None | None |
| | Line interface | Residence Service. Standard tip & ring. Includes loop start, ground start, on-hook | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | Business Service. Standard tip & ring. Includes loopstart, groundstart, on-hook | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | Coin. Includes public, semi-pub, COCOT, and options. | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|-----------------------|---|--|---|
| | | | Recurring | NRC |
| Local Switching. Cont'd | Line Interface Cont'd | | All States: [REDACTED] month | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | 2W ISDN | | |
| | | | All States: [REDACTED] month per line interface | See Note for 2W ISDN |
| | | DS1 ISDN | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | | TR 08- Dig Loop Cxr | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | | TR 303- Dig Loop Cxr | | |
| | | | Monthly: Al - [REDACTED] Fla - [REDACTED] Ga - [REDACTED] Ky - [REDACTED] La - [REDACTED] Ms - [REDACTED] N.C. - [REDACTED] S.C. - [REDACTED] Tn - [REDACTED] | Proposed price(s) will be provided following receipt of suitable BellSouth price proposal that recognizes various unbundled element ordering options. |
| | | 2-Wire/ 4-Wire analog interface to PBX | | |
| | | | All States: [REDACTED] month | See Note for 2W ISDN |
| | | DS1 interface to PBX or CPE | | |
| | | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. |
| | | Switched Fractional DS1 with capabilities to configure Nx64 channels, n <25 | | |
| | | | All States: [REDACTED] month per equipped line | None |
| | | Direct in Dial | | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

Attachment B

| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------|--|---|--|---|
| | | | Recurring | NRC |
| Local Switching. Cont'd | | | All States: [redacted] month per equipped line | None |
| | Rotary | | | |
| | End office switching functions, including intraoffice, interoffice, toll, access, and local | | All States: Origination, first minute: [redacted] Originating, add'l minute [redacted] Terminating, per minute: [redacted] | None |
| | | Originating and Terminating switching | | |
| | | | | |
| | BellSouth proposed universal local call termination option. Includes local switching, common transport, signaling, and far end local switching to terminate local calls. | Originating and Terminating switching plus local trpt. Includes intraoffice. Also includes calling to expanded local and toll substitute plan areas. | All States: Origination, first minute: [redacted] Terminating, add'l minute [redacted] Terminating, per minute: [redacted] Includes access traffic and calling to and from all points in expanded and toll substitute areas. | None |
| | Features | | | All States: [redacted] feature activated after initial service installation. |
| | | Residential Features | None | |
| | | | None | All States: [redacted] feature activated after initial service installation. |
| | | CLASS features | | |

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | | |
|-----------------------------|-----------------------------|--|---------------------------------------|--|------|
| | | | Recurring | NRC | |
| Local Switching (Cont'd) | Features (Cont'd) | | None | All States: [redacted] feature activated after initial service installation. | |
| | | Business/ Centrex Features | | | |
| | | AIN Features | None | All States: [redacted] feature activated after initial service installation. | |
| | Trunk Terminations | | CAMA ANI | None | None |
| | | | | None | None |
| | | | FGB | | |
| | | | | None | None |
| | | | FGD/ IEC Operator | | |
| | | | | None | None |
| | | | DS 3 | | |
| | | | None | None | |
| | | Switched digital- 56 & 64 kb/s | | | |
| | | | Included in individual element rates. | | |
| | Loop/ Switch cross-connect | Connection of unbundled switch and colocated loop elements. | | | |
| | | | Included in individual element rates. | | |
| | Switch/ Trunk Cross-connect | Connection of unbundled switch and colocated transport elements. | | | |

AT&T PRICE PROPOSAL TO BELLSOUTH
UNBUNDLED NETWORK ELEMENTS

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| Item | Type | Explanation | AT&T Price Proposal | |
|-------------------------|---------------------------|-------------------------|---|-----------------|
| | | | Recurring | NRC |
| Local Operator Services | 0+ Calling Card | 0+ calling card | [REDACTED] call | None |
| | | automated calling card | [REDACTED] r call | None |
| | Station | 0- calling card | [REDACTED] r call | None |
| | | 0- bill to third | [REDACTED] call | None |
| | | 0- collect | [REDACTED] call | None |
| | | 0- no attempt | [REDACTED] call | None |
| | | 0+ bill to third | [REDACTED] call | None |
| | | Automated bill to third | [REDACTED] r call | None |
| | | 0+ collect | [REDACTED] call | None |
| | | automated collect | [REDACTED] r call | None |
| | | sent paid | [REDACTED] r call | None |
| | | Person | 0- calling card | [REDACTED] call |
| | 0- bill to third | | [REDACTED] call | None |
| | 0- collect | | [REDACTED] r call | None |
| | 0+ calling card | | [REDACTED] call | None |
| | 0+ bill to third | | [REDACTED] call | None |
| | 0+ collect | | [REDACTED] r call | None |
| | Dialing instructions | | Per call rate based on [REDACTED] nse per work minute | None |
| | Route 0- to live operator | | None | None |
| | Time & Charges | | Per call rate based on [REDACTED] nse per work minute | None |

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AT&T PRICE PROPOSAL TO BELLSOUTH
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| Item | Type | Explanation | AT&T Price Proposal | |
|----------------------------------|------------------------------------|---|---|------|
| | | | Recurring | NRC |
| Local Operator Services (Cont'd) | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Busy Line Verification | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Emergency Interrupt | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Emergency Call Trace | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| | Operator Transport | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of \$0.002 per call. | |
| Local Directory Assistance | Directory assistance | | [REDACTED] ill | None |
| | Directory Transport | | No additional charge under combined switch/transport proposal. Charge from ALEC switch @ proposed rates, less credit of [REDACTED] call. | |
| | DA Interconnection | | None | |
| | DA Database Service | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Direct Access to DA | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | DA Call Completion | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Call Completion Termination Charge | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Intercept | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Common Transport | | An interoffice transmission path between LEC network elements. Includes multiplexing, grooming, cross-office wiring to DSX or LGX. Includes DS1, DS3, various SONET level term options, two way or one way option | [REDACTED] ni., per local minute [REDACTED] m., per local minute | None |

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AT&T PRICE PROPOSAL TO BELLSOUTH
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| Item | Type | Explanation | AT&T Price Proposal | |
|---------------------|----------------------------|--|--|--|
| | | | Recurring | NRC |
| Dedicated Transport | | | 2-Wire Loc Chan: [redacted] mo. 4-Wire Local Chan: [redacted] mo. IO Channel: [redacted] mile [redacted] fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan: [redacted] first [redacted] Add'l 4-W Loc Chan: [redacted] First [redacted] Add'l [redacted] First [redacted] Add'l |
| | Voice Grade | An interoffice transmission path between AT&T designated locations. | | |
| | | | 2-Wire Loc Chan: [redacted] mo. 4-Wire Local Chan: [redacted] mo. IO Channel: [redacted] mile [redacted] fac term Loc Chan not applicable when terminated in BellSouth office | 2-W Loc Chan: [redacted] first [redacted] Add'l 4-W Loc Chan: [redacted] First [redacted] Add'l [redacted] First [redacted] Add'l |
| | DS0 | An interoffice transmission path between AT&T designated locations. | | |
| | | | Local Channel: [redacted] mo. IO Channel: [redacted] mile [redacted] fac term. Loc Chan not applicable when terminated in BellSouth office | Local Chan: [redacted] first [redacted] Add'l IOC: [redacted] Each |
| | DS1 | An interoffice transmission path between AT&T designated locations. | | |
| | | | Local Channel: [redacted] mo. IO Channel: [redacted] mile [redacted] fac term. Loc Chan not applicable when terminated in BellSouth office | Local Channel: [redacted] IOC: [redacted] |
| | DS3 | An interoffice transmission path between AT&T designated locations. | | |
| | STS-1 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | Capacity on shared circuit | Includes multiplexing and grooming functionality, and redundant equip and facilities to support protection and restoration | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

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AT&T PRICE PROPOSAL TO BELLSOUTH
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| Item | Type | Explanation | AT&T Price Proposal | |
|------------------------------------|--------------------------|--|---|------------|
| | | | Recurring | NRC |
| Dedicated Transport. Cont'd. | System dedicated to AT&T | Includes transmission equipment, facilities, and redundant equip and facilities to support protection and restoration | See SONET Rings | |
| | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | | | SONET line switched rings, OC48 | |
| | | SONET path switched rings, OC 3, OC 12 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Digital Cross Connect System (DCS) | | Auto x-connect, grooming, pt to multi-pt, auto test, broadcast capabilities. Include x-conn to DSX or LGX. AT&T has real time access, real time configuration capabilities | | |
| | DCS1/0 | Per System | [REDACTED] | [REDACTED] |
| | DCS3/1 | 28 DS1 Channel System | [REDACTED] | [REDACTED] |
| | | Per DS1 | [REDACTED] | [REDACTED] |
| | DCS3/3 | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | STS-1 X-conn | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Tandem Switching | | | \$ [REDACTED] | None |
| Unbundled Element Features | Various | Features, functions, capabilities not specifically listed in this proposal | BellSouth will provide upon request at direct economic cost. | |

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| Item | Type | Explanation | AT&T Price Proposal | |
|--------------------------|---------------------------------|--|---|------------------------|
| | | | Recurring | NRC |
| Data Switching | Circuit Switched Data Switching | Data switching functionality required to switch between industry standard ISDN interfaces. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | ISDN Packet Switching | Data switching functionality required to switch between industry standard ISDN interfaces. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | Frame Relay | Switching functionality required to connect facilities from the Frame Relay User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| | ATM | Switching functionality required to connect facilities from the ATM User to Network Interface (UNI) to either another UNI or a communications path at the Network to Network Interface (NNI) | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| STPs | ISUP Msg. | | All States: [REDACTED] | None |
| | TCAP Msg. | | All States: [REDACTED] | None |
| | Usage Surrogate | Where measurement not available | All States: [REDACTED] 56kbps facility | None |
| Signaling Link Transport | A or D link facility | 56kbps | All States: [REDACTED] | All States: [REDACTED] |
| | Signaling facility termination | 56kbps | All States: [REDACTED] | None |
| | Signaling facility termination | DS1 | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |

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| Item | Type | Explanation | AT&T Price Proposal | |
|------------------|---------------------------------------|---|---|-----|
| | | | Recurring | NRC |
| SCPs/ Data Bases | Line Info Database (LIDB) | Storage Agreement | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | | Use of ALEC LIDB data | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | | Validation | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | Toll Free Number Portability Database | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| | ALI/DMS Database | | AT&T may access 911 Tandem using local transport facilities contained in this proposal. | |
| | | Contains information regarding routing of calls to public safety answering points | | |
| | SCE/SMS/ AIN Access | Ability to create service applications in the BST SCE and deploy those applications to the BST SCP | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | | Ability to create service applications in the AT&T SCE and deploy those applications via the AT&T SCP to BST SSPs | Proposed price(s) will be provided following receipt of BellSouth cost data. | |

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| Item | Type | Explanation | AT&T Price Proposal | |
|--|--------------|--|---|-----|
| | | | Recurring | NRC |
| Interim Number Portability | | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | SPNP- Remote | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| | SPNP- DID | | Proposed price(s) will be provided following receipt of BellSouth cost data. | |
| Directory Listings | | | See interconnection proposal. In addition, charges for additional and optional listings shall be subject to reductions for sales commissions paid AT&T. | |
| CMDS- Hosting | | | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Non-Sent Paid Report System | | Mechanized report system providing companies within BellSouth region info regarding Non-Sent Paid message and revenue distribution | AT&T will respond to BellSouth proposal on or before July 3, 1996. | |
| Poles, Ducts, Conduits and Rights of Way | | | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Virtual Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Physical Collocation | | | Proposed price(s) will be provided following receipt and review of BellSouth cost data. | |
| Lease of unused transmission media | | Interoffice transmission media which has no lightwave or electronic transmission equipment terminated to operationalize its transmission capabilities. | Proposed price(s) will be provided following receipt and review of BellSouth price proposal and/ or receipt of BellSouth cost data. | |
| Local Calling Area Boundary Guide | | | BellSouth proposal to provide at no charge accepted. | |

201034

Attachment 6

1 PROPOSED RECOVERY OF COSTS INCURRED BY BELLSOUTH
2 TO PROVIDE ELECTRONIC INTERFACES

3 Below are the prioritized options for cost recovery of the
4 one time, up front net costs BellSouth will incur to
5 implement the electronic interfaces requested by AT&T, as
6 agreed to by the joint AT&T/BellSouth Negotiating Core Team
7 on June 19, 1996.

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[REDACTED]

17 2.
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[REDACTED]

24 3.
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[REDACTED]

33 4.
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35
36
37

[REDACTED]

330530

TOTAL SERVICES RESALE IMPLEMENTATION TIMELINE

1

2 **PHASE**

3 **PHASE NAME**

4

5 **INTERVALS**

6 **VOLUME OF ACCOUNTS**

7

8

9

10 **AT&T REQUIRED**

11 **TIMELINE**

12 **BEST CASE TIMELINE**

13 **WORST CASE TIMELINE**

| | PHASE 0 | PHASE 1 | PHASE 2 | PHASE 3 | PHASE 4 |
|--|---|--|------------------------------------|-------------------------------------|---------------------------------|
| | OBTAINING AGREEMENT IN PRINCIPLE | DEVELOPMENT AND OPERATIONAL TRIAL | SERVICE READINESS TRIAL | SERVICE DELIVERY RAMP UP | GENERAL AVAILABILITY |
| | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |
| | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] |

400051

AT&T PROPRIETARY AND CONFIDENTIAL
 SUBJECT TO THE 4/2/96 CONFIDENTIALITY AGREEMENT BETWEEN AT&T AND BELL SOUTH

APRIL 10, 1996
 JMB

Unbundled Network Function Combinations

1

2

3

4 Loop Distribution

5 Loop Concentrator

6 Loop Feeder

7 Local Switching

8 Common Transport

9 Dedicated Transport

10 Tandem Switching

11 Signal Transfer Port

12 Signaling Link

13 SCPs/Databases

14 Operator Systems

15 * = NID Only

430173

DRAFT

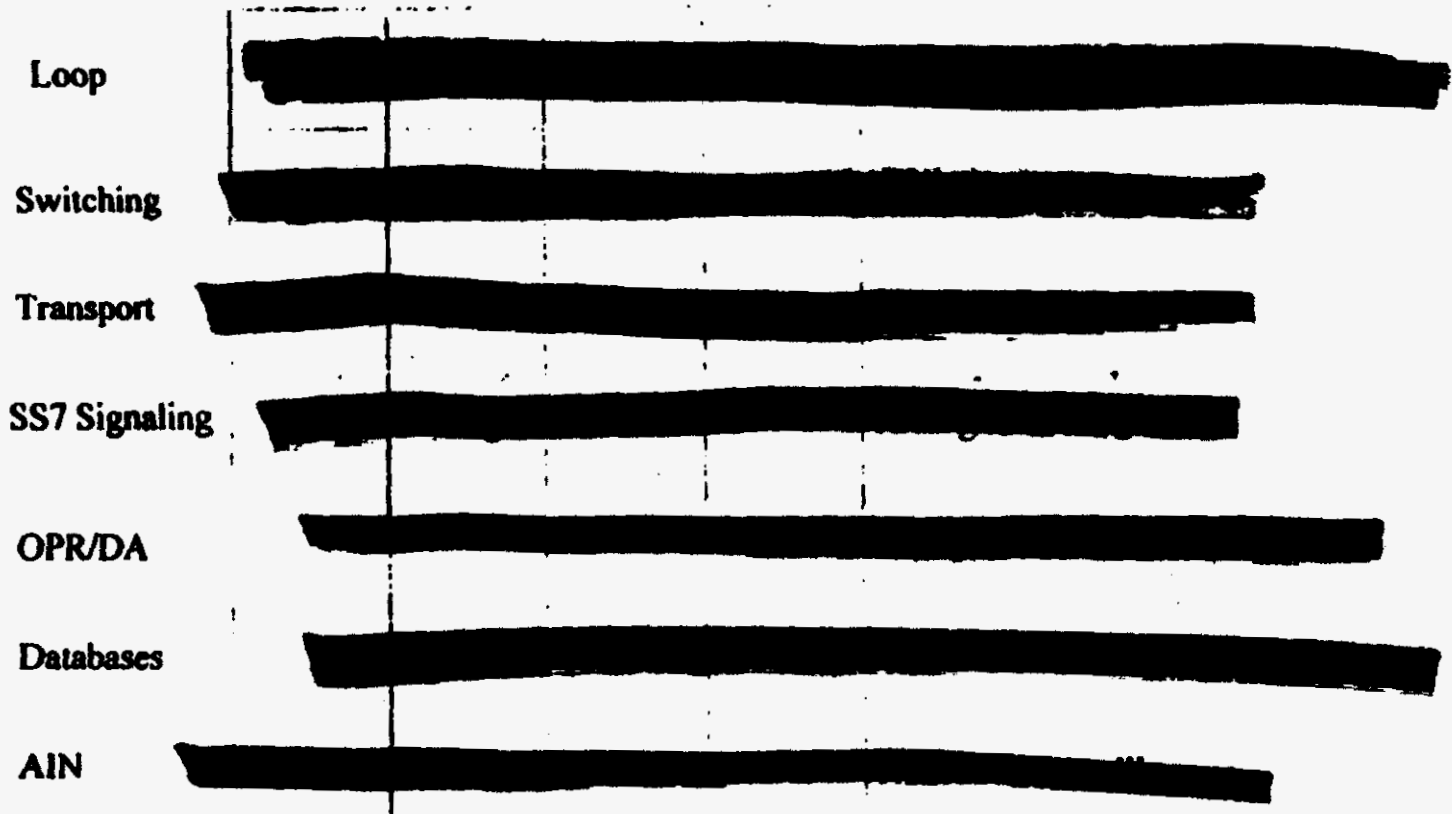
DRAFT

DRAFT

1
2
3
4
5
6 B
7 S
8 T
9
10 P
11 L
12 A
13 T
14 F
15 O
16
17 R
18 M

Unbundled Network Function Combinations
Service Now

1 2 3 5 6 7 8 12



430174

DRAFT

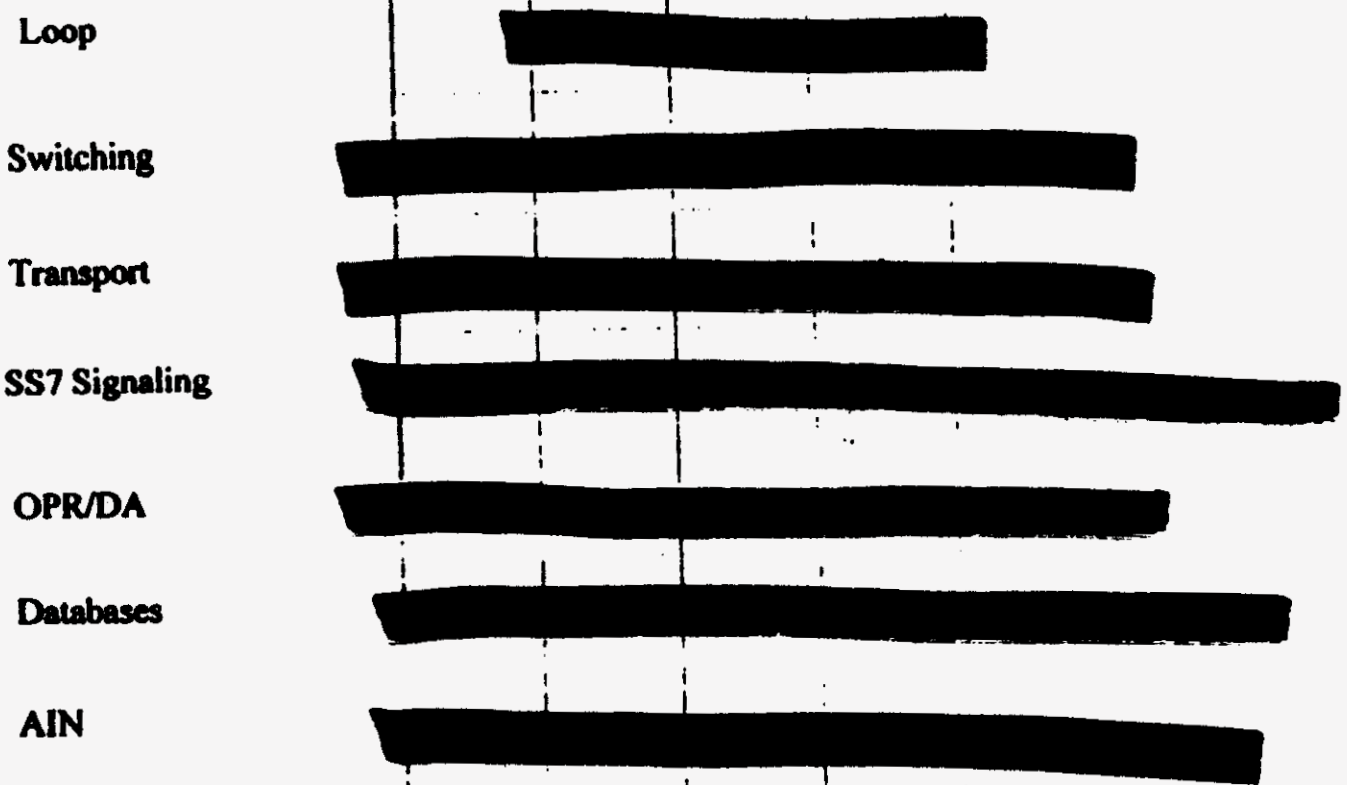
DRAFT

DRAFT

Unbundled Network Function Combinations
Service Later

1
2
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4
5
6 B
7 S
8 T
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11 P
12 L
13 A
14 T
15 F
16 O
17 R
18 M
19

4 9 10 11



400173

Unbundled Network Function Combinations

1

2

3

4

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6

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10

11

12

13

14

15

| | 1 | 2 | 3 | 5 | 6 | 7 | 8 | 12 | 4 | 9 | 10 | 11 |
|-----------------------|---|---|---|---|---|---|---|----|---|---|----|----|
| Combination | | | | | | | | | | | | |
| Service Date ** | | | | | | | | | | | | |
| Loop Distribution | | | | | | | | | | | | |
| Loop Concentrator | | | | | | | | | | | | |
| Loop Feeder | | | | | | | | | | | | |
| Local Switching | | | | | | | | | | | | |
| Common Transport | | | | | | | | | | | | |
| Dedicated Transport | | | | | | | | | | | | |
| Tandem Switching | | | | | | | | | | | | |
| Signal Transfer Point | | | | | | | | | | | | |
| Signaling Link | | | | | | | | | | | | |
| SCPs/Databases | | | | | | | | | | | | |
| Operator Systems | | | | | | | | | | | | |

16 * = NID Only

17 ** = Subject to Agreement on Gateway Interface

unclon. doc.
to 20/96

430203

AT&T Proprietary (Restricted)

DRAFT

DRAFT

DRAFT

1
2
3

Unbundled Network Function Combinations



4 Combination 1 2 3 5 6 7 8 12

5 B
6 S
7 T
8
9 P
10 L
11 A
12 T
13
14 F
15 Databases
16 O
17 R
18
19 M

| | | | | | | | | | |
|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Loop | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Switching | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Transport | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| SS7 Signaling | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| OPR/DA | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| Databases | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |
| AIN | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] | [Redacted] |

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Unbundled Network Function Combinations

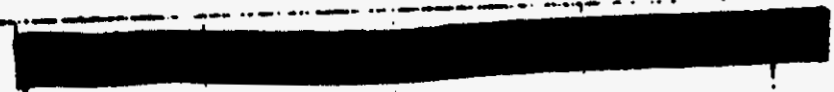


4

| Combination | 4 | 9 | 10 | 11 |
|-------------|---|---|----|----|
|-------------|---|---|----|----|

5 B

Loop



6 S

Switching



7 T

Transport



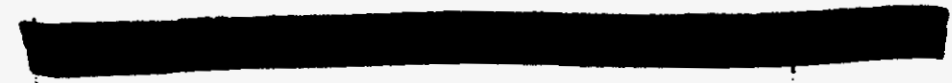
10 P

SS& Signaling



12 A

OPR/DA



13 T

Databases



14 F

15 O

16 R

AIN



17 M

430267