

Dianne M. Triplett DEPUTY GENERAL COUNSEL

October 27, 2022

#### VIA ELECTRONIC FILING

Adam J. Teitzman, Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

Re: Petition by Duke Energy Florida, LLC, to Approve Transaction with Accelerated Decommissioning Partners, LLC, for Accelerated

Decommissioning Services at the CR3 Facility, etc.

Docket No. 20190140-EI

Dear Mr. Teitzman:

Enclosed for filing on behalf of Duke Energy Florida, LLC ("DEF"), please find the Decommissioning Quarterly Report received from Accelerated Decommissioning Partners (ADP) on October 17, 2022 for the quarter ending September 2022. Order No. PSC-2020-0289-FOF-EI, dated August 27, 2020, issued in the above-referenced docket, provides that "2. The information responsive to items identified in the DSA [Decommission Services Agreement], Attachment 9, Section B through E should be provided to the Commission within two weeks of DEF's receipt of this information from ADP."

Thank you for your assistance in this matter. Please feel free to call me at (727) 820-4692 should you have any questions concerning this filing.

Sincerely,

s/Dianne M. Triplett

Dianne M. Triplett

DMT/mw Enclosure

### **CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 27<sup>th</sup> day of October, 2022.

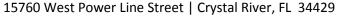
\_\_\_\_s/Dianne M. Triplett
Attorney

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**Billy E. Reid,** Decommissioning Program Manager c.865.384.6789

BReid@NorthStar.com

ADP22-0019

October 17, 2022

Terry Hobbs (via electronic mail)
DEF General Manager
Site Administration Building
Crystal River Energy Complex (CREC)

Subject: Materials for Quarterly Meeting

Dear Mr. Hobbs,

In accordance with the Decommissioning Services Agreement (DSA) section 6.12.1 and Attachment 9, attached you will find the materials prepared by ADP CR3, LLC (ADP) for the upcoming quarterly meeting scheduled for October 25, 2022. Please note that the schedule included in the attached also satisfies the requirements for the quarterly schedule update stipulated at section 6.7 of the DSA.

Should you have any questions or comments, contact me at your convenience at either <a href="mailto:bereid@northstar.com">bereid@northstar.com</a> or 865-384-6789.

Sincerely,

Billy E. Reid

**Decommissioning Program Manager** 

Cc: Luke Self (ADP / NS)

Nelson Langub (ADP / NS)
David Pearson (ADP / NS)
Geoff Wilde (ADP / Orano)



# **Decommissioning Quarterly Report**

for quarter ending

September 2022

### 

7.0

#### 1.0 EXECUTIVE SUMMARY

This is the ADP CR3 quarterly report on the decommissioning of the Crystal River Unit 3 nuclear plant in accordance with the requirements of the First Amendment to the Decommissioning Services Agreement (DSA), Attachment 9, *Reporting and Notification Requirements*, reflecting the quarter from July 1, through September 30, 2022.

Q3 Safety and Environmental Performance

Injury/Illness Summary	3 <sup>RD</sup> Quarter 2022	YTD 2022	PTD 2022
Project Hours	84,138	250,300	607,696
First Aid Cases	1	7	12
Recordable Cases	0	0	0
Lost Workday Cases	0	0	0

- COVID 10 new cases for 3rd Quarter all returned to work
- ALARA Actual exposure to date = 15515 mrem vs budget 17424 mrem
- Personnel Contamination = 0
- Heat Stress = 0

This quarter commenced with the continuing work on Segmentation of the Reactor Internals. Thermal Shield cutting finished in July as well as the Waste Transfer and Transportation Dry Run and setup and testing of the RV Segmentation Equipment. Core Barrel and Baffle Segmentation started in July with a forecasted completion date of November. Significant progress continued in the Turbine building, Auxiliary Building and Intermediate building was completed. Emergency Feed Water building demolition started this quarter with a forecasted completion date of November. Planning and preparations for other sequences of work continued this quarter. Corrective actions continued through this quarter with respect to the Safety Conscious Work Environment. No used nuclear fuel related violations, environmental non-compliance, or significant industrial safety events occurred or were reported.

#### 2.0 SUMMARY OF REGULATORY EVENTS AND REPORTS

1. Reportable events to Governmental Authority (e.g., NRC, OSHA, FDEP, EPA):

**NONE** 

- Receipt of any correspondence from any Governmental Authority of violation or finding: NONE
- Any breach of debt covenants, default acceleration, insolvency, reorganization, bankruptcy or liquidation of NorthStar Group Services, Inc., and/or proposed organizational changes in equity ownership of NorthStar Group Holdings, LLC or ORANO SA:

NONE

4. Events that require Duke Energy Florida (DEF) to make a report to ANI:

NONE

5. Events that require Duke Energy Florida (DEF) to make a report to NEIL:

NONE

#### **3.0 PAY ITEM DISPUTE SUMMARY**

There are no pay items in dispute. DEF has communicated that the quality of the documentation of Pay Item completion has been very good, with progress of all Pay Item being validated.

#### 4.0 ADP CR3 NON-COMPLIANCE ITEMS

There have been no non-compliance items this quarter.

#### **5.0 CONCERNS NEEDING MANAGEMENT ATTENTION**

No concerns needing management attention at this time.

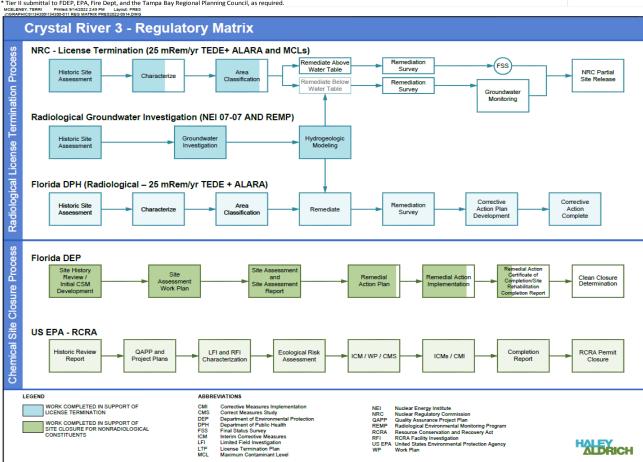
#### **6.0 SUBMITTED AND PENDING REGULATORY SUBMITTALS**

**NRC** 

NUMBER	DATE	FROM ORG	FROM PERSON	SUBJECT	NRC ACCESSION#
3F0122-01	01/26/22	CR3	Reid	Crystal River 3 – License Amendment Request to remove from the Facility Operating License, Appendix B, "Environmental Protection Plan (Non-Radiological) Technical Specifications"	ML22026A433
3F0122-02	01/17/22	CR3	Dixon	Crystal River Unit 3 – Proof of Financial Protection	ML22018A052
3F0122-03	01/17/22	CR3	Dixon	Crystal River Energy Complex – Environmental Protection Plan Report: 2021 Sea Turtle Rescue and Recovery Summary Report	ML22018A051
3F0222-01	02/09/22	CR3	Dixon	Updated Spent Fuel Management Plan	ML22040A134
3F0222-02	02/09/22	CR3	Dixon	Crystal River 3 – Onsite Property Insurance Coverage	ML22040A135
N/A	02/23/22	CR3	White	DEF-Annual FFD Electronic Submittal (Electronic Only Submittal -No letter sent)	ML22054A075
3F0322-01	03/30/22	CR3	State	Crystal River Unit 3 – Annual Decommissioning and Irradiated Fuel Management Financial Status Report for 2021	ML22089A163
3F0322-02	03/07/22	CR3	Dixon	Crystal River 3 – 2021 Individual Monitoring NRC Form 5 Report.	ML22066A983
3F0322-03	03/10/22	CR3	Dixon	Crystal River 3 – HHS Lab Error Investigation Report. (per 10 CFR 26.719(c)(1))	ML22069A581
3F0322-04	03/23/22	CR3	Dixon	Crystal River 3 (XEG) – DOE/NRC Forms 741, 742 and 743C (SNM Report)	ML22088A055
3F0422-01	04/06/22	CR3	Dixon	Crystal River Unit 3 – 2021 Annual Radioactive Effluent Release Report	ML22096A103
3F0422-02	04/06/22	CR3	Dixon	Crystal River Unit 3 – 2021 Annual Radiological Environmental Operating Report	ML22096A104
3F0522-01	05/17/22	CR3	Reid	Crystal River Unit 3 – Safety Analysis Report, QAPM and 10 CFR 50.59 - 10 CFR 72.48 Report – May 2020	ML22138A042
3F0522-02	05/10/22	CR3	Adix	ADP Financial Report	ML22131A303
3F0522-03	05/28/22	CR3	State	PSDAR and DCE update	ML22148A001
3F1022-01		CR3	Reid	LTP	

### **Environmental**

Number	Date	From Org	From Person	Subject	Submitted To
e Investigation,	Remediation	•			
	28-Feb-22	H&A	Nadia Glucksberg	AOC 12 - Former Firing Range Interim Source Removal Report - Addendum No 1	ADP CR3
	28-Feb-22	H&A	Nadia Glucksberg	Supplemental Site Investigation Report	ADP CR3
3S0322-01	1-Mar-22	H&A	Nadia Glucksberg	AOC 12 - Former Firing Range Interim Source Removal Report Addendum No 1	FDEP
	15-Mar-22	H&A	Nadia Glucksberg	AOC 18 - Settling Basin, Interim Source Removal Report	ADP CR3
	22-Feb-22	H&A	Miles van Noordennen	Building Material Summary Memorandums (Emergency Diesel Gen, Emergency Feedwater Pumphouse, Central Alarm Station 2 Building, Aux Building)	ADP CR3
	Jan-22			Collection of groundwater samples from AOC 12 and 18 to support ISRP's	
	Feb-22			Well repair for MW-6S and 6D	
	Mar-22			Collection of Coatings (two week field program)	
	May-22	H&A	Elida Danaher	Additional Well Installation and Groundwater Sampling Work Package	ADP CR3
	May-22	H&A	Nadia Glucksberg	NEI 5 Year GW Review	ADP CR3
	Jul-22	H&A	Miles van Noordennen	Building Characterization - Turbine Building	ADP CR3
3S0922-02	Sep-22	H&A	Nadia Glucksberg	AOC 18 - Settling Basin, Interim Source Removal Report (updated, submitted to FDEP)	FDEP
				Conduct Field Program (May/June)	
3S0622-01	1-Mar-22	H&A	Nadia Glucksberg	Background Evaluation for Groundwater	FDEP
3S0622-01 rmitting Suppor	t				
	t 2/22/2022	H&A	Nadia Glucksberg	SPCC Plan Revision	ADP CR3
	t	H&A ADP CR3	Nadia Glucksberg Elida Danaher	SPCC Plan Revision Annual MSGP Report	ADP CR3 ADP CR3
	2/22/2022 2/22/2022	H&A ADP CR3 ADP CR3	Nadia Glucksberg Elida Danaher Elida Danaher	SPCC Plan Revision Annual MSGP Report Annual MSGP Report	ADP CR3 ADP CR3 FDEP
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### 7.0 COMPLETED AND NEAR-TERM SCHEDULE MILESTONES

	PAY ITEM/MILESTONE	PLANNED COMPLETE	STATUS
3.1.1.1	Planning & Site Preparation		100%
	Utilities Reactivation		Complete
3.1.1.2	Planning & Site Preparation		100%
0.2.2.2	Containment Access, Waste Handling Areas		Complete
3.1.2	Planning & Site Preparation		100%
3.1.2	Site Characterization		Complete
	Planning & Site Preparation		100%
3.1.3.1	LCR and RV/RVI Planning and Engineering		Complete
	General transition Planning/Engineering		
	Planning & Site Preparation		100%
3.1.3.2	LCR and RV/RVI Planning and Engineering		Complete
9	Site/Plant infrastructure Planning and Engineering		
	Planning & Site Preparation		90 %
3.1.3.3	LCR and RV/RVI Planning and Engineering	11/30/2022	Complete
	RVI Planning and Engineering		, , , , , , ,
	Planning & Site Preparation		67%
3.1.3.4	LCR and RV/RVI Planning and Engineering	5/10/2023	Complete
	RV Planning and Engineering		•
	Planning & Site Preparation		100%
3.1.3.5	LCR and RV/RVI Planning and Engineering		Complete
	LCR Planning and Engineering		,
	Planning & Site Preparation		100%
3.1.4.1	Balance of Plant D&D Planning		Complete
	Temporary Utilities, Site Preparation Planning		
	Planning & Site Preparation		1000/
3.1.4.2	Balance of Plant D&D Planning		100% Complete
	Turbine, Condenser, Steam Generator Removal Planning		<b>C</b> oprote
	Planning & Site Preparation		750/
3.1.4.3	Balance of Plant D&D Planning	12/31/2022	75% Complete
	Systems Removal and Decon Work Planning		complete
	Planning & Site Preparation		2501
3.1.4.4	Balance of Plant D&D Planning	3/31/2023	25% Complete
	Demolition Work Planning		Complete
	Large Component Removal		100%
4.A.1.1	Reactor Internals Segmentation		Complete
4.A.1.2	Reactor Internals Mobilization, Setup & Commissioning  Large Component Removal		100%
4.4.1.2	Laige Component Nemovai		100/0

	PAY ITEM/MILESTONE	PLANNED COMPLETE	STATUS
	Reactor Internals Segmentation Reactor Internals Segmentation (Plenum Assembly)		Complete
4.A.1.3	Large Component Removal Reactor Internals Segmentation Reactor Internals Segmentation (Core Support Assembly/Remaining)	12/31/2022	71% Complete
4.A.3	Large Component Removal Reactor Vessel Segmentation Reactor CRDMs, ICIs, Services Structure		100% Complete
4.A.4.1	Large Component Removal Reactor Coolant System Reactor Coolant Piping		100% Complete
4.A.4.2	Large Component Removal Reactor Coolant System Reactor Coolant System Pumps and Motors		100% Complete
4.A.5	Large Component Removal Reactor Coolant System Pressurizer and Relief Tank		100% Complete
4.A.6.5	Large Component Removal Steam Generators Steam Generator Package, Transportation and Disposal		100% Complete
4.A.7.1	Large Component Removal  Main Turbine/Generator/Condensers  Turbine and Generator Removal		100% Complete
4.A.7.1	Large Component Removal Condenser Removal	3/31/2023	79% Complete
4.B.1.2	Site Decontamination Remove Plant Systems Auxiliary Building elev 95'	4/06/2023	72% Complete
4.B.1.3	Site Decontamination Remove Plant Systems Auxiliary Building elev 119'	4/06/2023	76% Complete
4.B.1.4	Site Decontamination Remove Plant Systems Intermediate Building	5/30/2023	10% Complete
4.B.1.5	Site Decontamination Remove Plant Systems Turbine Building	12/31/2022	70% Complete
4.B.4	Site Decontamination Decontaminate Buildings License Termination Planning	7/31/2022	96% Complete
4.B.5.1	Site Decontamination Decontaminate Buildings West Settling Pond Remediation	8/31/2022	90% Complete
4.B.5.3	Site Decontamination Decontaminate Buildings Transfer Canal Sand		100%

	PAY ITEM/MILESTONE	PLANNED COMPLETE	STATUS
	Removal		Complete
5.1.2	Site Restoration Demolish Miscellaneous Site Structures Emergency Feed Water Building	11/30/2022	25% Complete
5.1.2	Site Restoration Demolish Miscellaneous Site Structures Diesel Generator Building		100% Complete
5.1.2	Site Restoration Demolish Miscellaneous Site Structures Alternate AC Diesel Generator Bldg Demo		100% Complete
5.1.2	Site Restoration Demolish Miscellaneous Site Structures Fire Pump House Building		100% Complete
5.1.2	Site Restoration Demolish Miscellaneous Site Structures RB Maintenance Bldg Demo		100% Complete
5.2.1	Site Restoration Firing Range Closure		100% Complete

Notes:

## **Progress Photos**

## **Large Component Removal Work**

**RVI Segmentation** 

## **Waste Transfer and Transportation Dry Run**







**Thermal Shield Segmentation** 







**RVI Core Barrel & Baffle Segmentation** 





## **RV Segmentation**

## **Setup and Testing of Segmentation Equipment**







**GTCC Move from ISFSI** 











**Condenser Removal** 









### <u>Site Decon – Remove Plant Systems</u>

## Auxiliary Building Systems Removal 95' Elevation

Misc. Waste Evaporator Tank





**Reactor Coolant Evaporator Tank** 





Auxiliary Building Systems Removal 119' Elevation

Demin Tanks



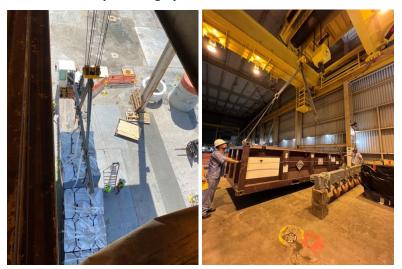




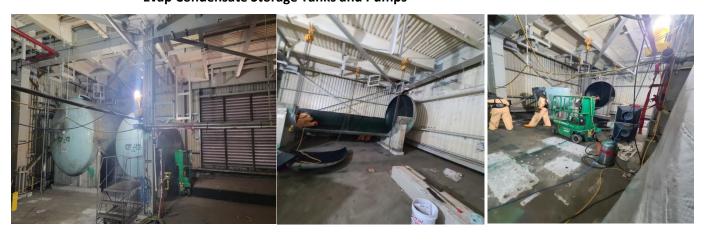




## Auxiliary Building Systems Removal 160' Elevation



Auxiliary Building Systems Removal 143' Elevation
Evap Condensate Storage Tanks and Pumps

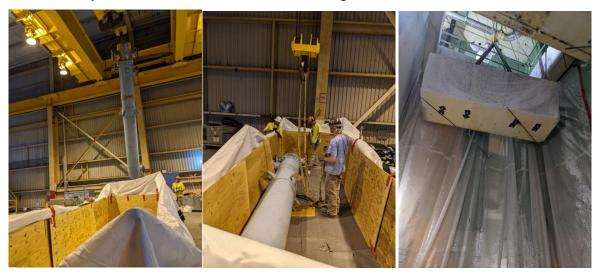


**Chemical Valves** 





## **Spent Fuel Valves, Filters and Heat Exchangers**



Control Complex Systems Removal 124' Elevation







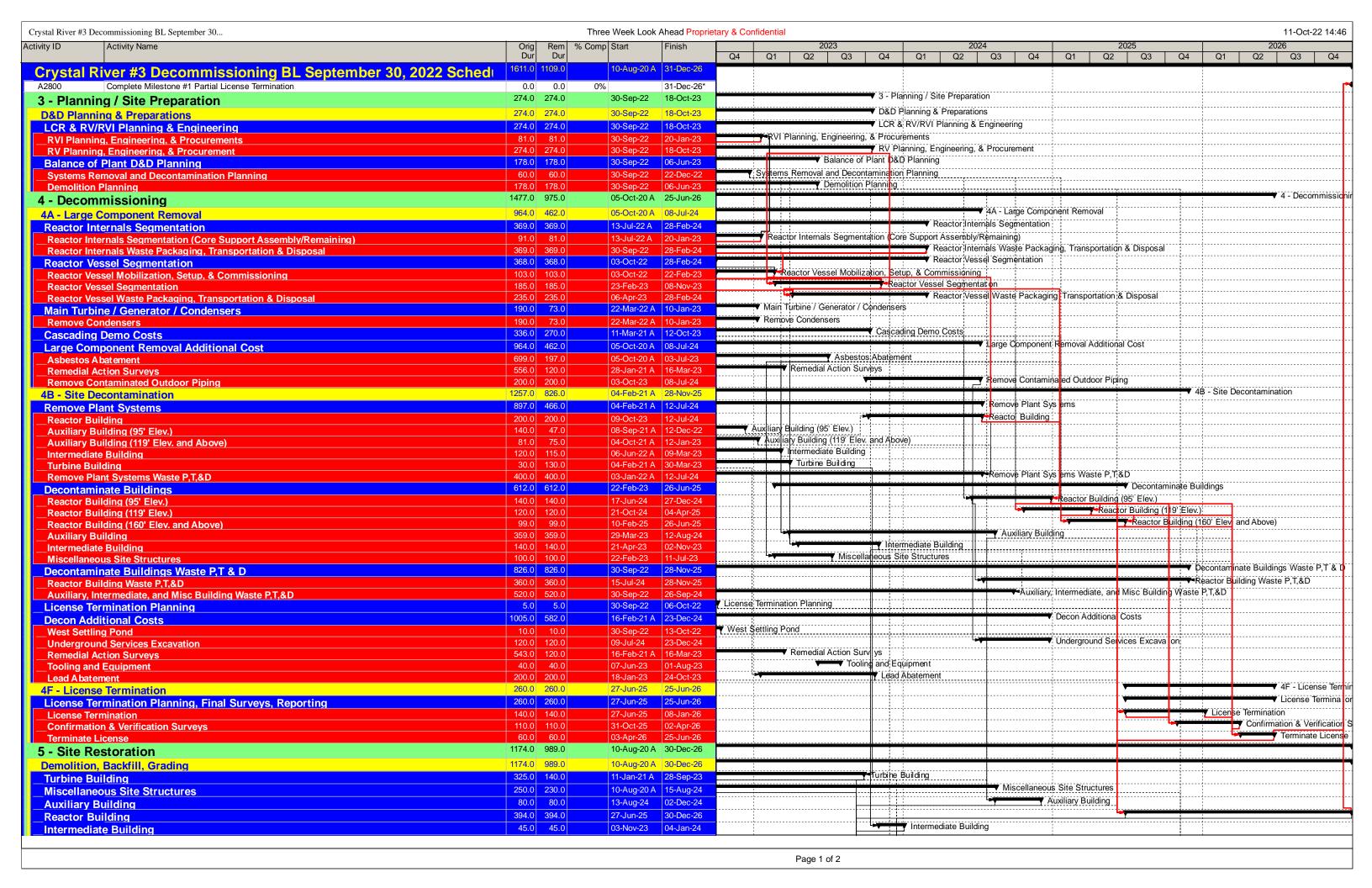


## <u>Site Restoration – Misc Building Demolition</u>

## **Emergency Feed Water Pump Building Demolition**







ivity ID	Activity Name	Orig	Rem	% Comp	Start	Finish		2023			2024					20:	25		2026		
		Dur	Dur				Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2	Q3
Backfill ar	nd Grade	595.0	595.0		29-Sep-23	08-Jan-26				-						-			: '	Backfill and G	
Site Resto	ration Additional Costs	514.0	514.0		05-Jan-24	24-Dec-25						•				1					Additional Cost
	Crushing & Security Barriers	514.0	514.0		05-Jan-24	24-Dec-25	:					•									ng & Security B
Croncrete		495.0	495.0		05-Jan-24	27-Nov-25					1	<del></del>							Cro	ncrete Crushing	
Security V	BS	19.0	19.0		28-Nov-25	24-Dec-25										]			- <del></del> (	Security VBS	
CR3 D&D	Project - GTCC Management	603.2	110.0		28-Oct-20 A	02-Mar-23		▼ CF	R3 D&D Pi	oject - GT	CC Mana	gement									
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