

Dianne M. Triplett DEPUTY GENERAL COUNSEL

October 15, 2021

### 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.; Dkt. No. 20190140-EI

Dear Mr. Teitzman:

Enclosed for filing on behalf of Duke Energy Florida, LLC ("DEF") in the above-referenced docket, please find the Decommissioning Quarterly Report received from Accelerated Decommissioning Partners ("ADP") on October 11, 2021, for the quarter ending September 2021. 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.

Respectfully,

/s/ Dianne M. Triplett

Dianne M. Triplett

DMT/cmw Enclosure

### **CERTIFICATE OF SERVICE**

Docket No. 20190140-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 15<sup>th</sup> day of October, 2021.

/s/ Dianne M. Triplett	
Attorney	

Suzanne Brownless Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:sbrownle@psc.state.fl.us">sbrownle@psc.state.fl.us</a>

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

BReid@NorthStar.com

ADP21-0027

October 11, 2021

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 28, 2021. 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 bereid@northstar.com or 865-384-6789.

Sincerely,

Billy E. Reid

**Decommissioning Program Manager** 

Cc: Luke Self (ADP / NS)

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

Ivan Wilson (DEF)



# **Decommissioning Quarterly Report**

for quarter ending

September 2021

### 

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, 2021.

This quarter commenced with the continuing work on the removal of the Reactor Coolant System completing removal and packaging of the Reactor Coolant System Pressurizer and Relief Tank, Removal and Packaging of the Reactor Coolant System Pumps and Motors. Significant progress was made in the Turbine building, Auxiliary Building, and Diesel Generator Building. Planning and preparations continued for Reactor Vessel Internals with mobilization scheduled to be complete by 12/15/2021. No nuclear safety, 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

2. 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.

### 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

## <u>NRC</u>

NUMBER	DATE	FROM ORG FROM PERSON SUBJECT						
3F0121-01	01/19/21	CR-3	Dixon	Report of Investigation Pursuant to 10 CFR 20, Appendix G.	ML21019A458			
3F0121-02	01/19/21	CR-3	Dixon	Request for Exemption from 10 CFR 20, Appendix G, Section III.E.	ML21019A464			
3F0221-01	02/02/21	CR-3	Dixon	Crystal River Energy Complex – Environmental Protection Plan Report: 2020 Sea Turtle Rescue and Recovery Summary Report	ML21039A232			
3F0221-02	02/17/21	CR-3	Dixon	Report of Investigation Pursuant to 10 CFR 20, Appendix G.	ML21048A033			
NA	02/18/21	DEF	E. Miller	ADP CR3-Annual FFD Electronic Submittal (No letter sent)	ML21053A269			
3F0221-03	02/23/21	CR-3	CR-3 White DEF-Annual FFD Electronic Submittal (No letter sent)					
3F0321-01	03/17/21	CR-3	Reid	Crystal River Unit 3 – License Amendment Request, Revision to Independent Spent Fuel Storage Installation (ISFSI)-Only Emergency Plan, Draft A, and ISFSI-Only Emergency Action Level Bases Manual	ML21076A386			
3F0321-02	03/17/21	CR-3 Reid Crystal River Unit 3 – License Amendment Request, Revision 0, ISFSI Security Plan, Revision A.						
3F0321-03	03/09/21	CR-3	Dixon	Report of Investigation Pursuant to 10 CFR 20, Appendix G.	ML21068A115			
3F0321-04				3F0321-04 was NOT USED - CR3 2020 Individual Monitoring NRC Form 5 Report was delayed and sent under 3F0421-05				
3F0321-05	03/15/21	CR-3	Dixon	Crystal River 3 – Onsite Property Insurance Coverage	ML21074A050			
3F0321-06	03/29/21	CR-3	State	Crystal River Unit 3 – Annual Decommissioning and Irradiated Fuel Management Financial Status Report for 2020	ML21088A290			
3F0321-07	03/30/21	CR-3	Dixon	Crystal River 3 (XEG) – DOE/NRC Forms 741, 742 and 743C (SNM Report)	ML21089A339			
3F0421-01	04/06/21	CR-3	Dixon	Crystal River Unit 3 – 2019 Annual Radioactive Effluent Release Report	ML21098A194			
3F0421-02	04/06/21	CR-3	Dixon	Crystal River Unit 3 – 2019 Annual Radiological Environmental Operating Report	ML21098A196			
3F0421-03	04/07/21	CR-3						
3F0421-04	04/13/21	CR-3	Dixon	Supplement to Application for Order Approving Indirect Transfers of Control of Licenses in Connection with Internal Corporate Reorganization	ML21103A415			
3F0421-05	04/27/21	CR-3	Dixon	Crystal River 3 – 2020 Individual Monitoring NRC Form 5 Report.	ML21117A300			
3F0521-01	05/24/21	CR-3	Adix	ADP Financial Report	ML21146A354 ML21145A263			
3F0621-01	06/03/21	CR-3	Dixon	Crystal River 3 – 10 CFR 71.17 User Registration of RT-100 Type B Radioactive Material Shipping Packages	ML21154A074			
3F0621-02	06/16/21	CR-3	Dixon	Crystal River Unit 3 - Reporting Related to the National Pollutant Discharge Elimination System (NPDES) Permit ID# FL0A00004-001-IW1S	ML21167A234			
EA-21-090	06/28/21	NRC	Watson	Vermont Yankee Nuclear Power Station and Crystal River Unit 3 Nuclear Generating Plant - Order Approving Indirect Transfer of Licenses (EPIDS L-2020-LLO-0008 and L-2020-LLO-0009	ML21103A415			
3F0721-01	07/13/21	CR-3	Dixon	Crystal River 3 – Report of Investigation Pursuant to 10 CFR 20, Appendix G	ML21194A133			
3F0821-01	08/18/21	CR-3	Reid	Crystal River Unit 3 – Response to Requests for Additional Information and Supplement 1 to License Amendment Request, Revision to Independent Spent Fuel Storage Installation (ISFSI)-Only Emergency Plan, and ISFSI-Only Emergency Action Level Bases Manual.	ML21230A191			
3F0921-01	09/14/21	CR-3	Reid	Crystal River Unit 3 – Supplement 1 to License Amendment Request, Revision 0,ISFSI Security Plan, Revision A.	ML21257A398			

#### Environmental

#### **Permits**

- Completed required routine SWPPP and SPCC inspections, documentation filed on site.
- Revised/Updated SPCC Plan
- Attended coordination communication/meeting with DEF
  - Provide DEF copies of agency correspondence (NPDES Inspection results, EPA ID No issuance)
- NPDES Permit:
  - Submitted a Minor Modification Application to the NPDES Permit on 6/16/2021. Addressed two rounds of comments, and received notice that no more comments are anticipated, awaiting final approval.
  - o Monthly reports (submitted electronically).
  - o Quarterly Stormwater Sample collected (last quarters sample results submitted).
  - Submitted required QC samples for the EPA study and passed all verifications (received notice from EPA on 9/24)

#### Remediation

- FDEP Meeting Held a review virtual meeting with FDEP to keep them updated on findings and schedules with respect to site closure.
- AOC 12 all data received and validated, preparing report to be submitted in Oct. Document to support No Further Action
  - Will also evaluate the data against the revised EPA residential direct exposure should FDEP adopt the standard in the future. No additional sampling required.
- AOC 18 Waste Water Pond. Completed Interim Source Removal Plan stamped and submitted to FDEP (to be submitted 9/30 unless requested to delay per CR South Coordination)
- Supplemental Site Investigation to address the balance of AOCs.
  - Installed and developed 5 monitoring wells
  - Validated GW and Soil data
  - Started Table/Figure and report generation (due end of Q4)
- Collected paint/coating samples to continue to fill data gaps to support IH and waste profiles
  - o Additional data collected to support FDEP approval for use of concrete as backfill
  - Technical Support Document drafted for FDEP to outline data/characterization profiles for coated structures to remain and for concrete to be used as beneficial reuse. To be submitted in Oct.
- Drafted the Post Demolition Survey and Sampling Plan to provide hold points once soils are exposed and slabs are removed to document and verify field conditions.
- See Summary of AOC Investigation Status Attached

### 7.0 COMPLETED AND NEAR-TERM SCHEDULE MILESTONES

	PAY ITEM/MILESTONE	PLANNED COMPLETE	STATUS
2111	Planning & Site Preparation		100%
3.1.1.1	Utilities Reactivation		Complete
2112	Planning & Site Preparation		100%
3.1.1.2	Containment Access, Waste Handling Areas		Complete
3.1.2	Planning & Site Preparation		100%
5.1.2	Site Characterization		Complete
	Planning & Site Preparation		4000/
3.1.3.1	LCR and RV/RVI Planning and Engineering		100% Complete
	General transition Planning/Engineering		Complete
	Planning & Site Preparation		4000/
3.1.3.2	LCR and RV/RVI Planning and Engineering		100% Complete
	Site/Plant infrastructure Planning and Engineering		complete
	Planning & Site Preparation		
3.1.3.3	LCR and RV/RVI Planning and Engineering	9/13/2022	75% Complete
	RVI Planning and Engineering		Complete
	Planning & Site Preparation		470/
3.1.3.4	LCR and RV/RVI Planning and Engineering	5/10/2023	47% Complete
	RV Planning and Engineering		complete
	Planning & Site Preparation		4000/
3.1.3.5	LCR and RV/RVI Planning and Engineering		100% Complete
	LCR Planning and Engineering		complete
	Planning & Site Preparation		4000/
3.1.4.1	Balance of Plant D&D Planning		100% Complete
	Temporary Utilities, Site Preparation Planning		complete
	Planning & Site Preparation		4000/
3.1.4.2	Balance of Plant D&D Planning		100% Complete
	Turbine, Condenser, Steam Generator Removal Planning		complete
	Planning & Site Preparation		750/
3.1.4.3	Balance of Plant D&D Planning	7/31/2022	75% Complete
	Systems Removal and Decon Work Planning		complete
	Planning & Site Preparation		4507
3.1.4.4	Balance of Plant D&D Planning	3/31/2023	15% Complete
	Demolition Work Planning		complete
	Large Component Removal		
4.A.1.1	Reactor Internals Segmentation	12/15/2021	5% Complete
	Reactor Internals Mobilization, Setup & Commissioning		

4.A.3	Large Component Removal Reactor Vessel Segmentation Reactor CRDMs, ICIs, Services Structure	8/25/2022	25% Complete
4.A.4.1	Large Component Removal Reactor Coolant System Reactor Coolant Piping	10/27/2021	10% Complete
4.A.4.2	Large Component Removal Reactor Coolant System Reactor Coolant System Pumps and Motors	10/15/2021	70% Complete
4.A.5	Large Component Removal Reactor Coolant System Pressurizer and Relief Tank	10/15/2021	80% Complete
4.A.6.5	Large Component Removal Steam Generators Steam Generator Package, Transportation and Disposal	10/31/2021	93% Complete
4.A.7.1	Large Component Removal  Main Turbine/Generator/Condensers  Turbine and Generator Removal	12/15/2021	55% Complete
4.B.1.2	Site Decontamination Remove Plant Systems Auxiliary Building elev 95'	4/06/2023	15% Complete
4.B.1.5	Site Decontamination Remove Plant Systems Turbine Building	6/30/2022	15% Complete
4.B.5.3	Site Decontamination Decontaminate Buildings Transfer Canal Sand Removal		100% Complete
5.1.2	Site Restoration Demolish Miscellaneous Site Structures Diesel Generator Building	12/07/2021	10% Complete
5.1.2	Site Restoration Demolish Miscellaneous Site Structures Alternate AC Diesel Generator Bldg Demo		100% Complete
5.2.1	Site Restoration Firing Range Closure		100% Complete

Notes:

# **Progress Photos**

## **Utilities Work**

## **Electrical Re-route**









## **Aux Building Ventilation**



## **Large Component Removal Work**

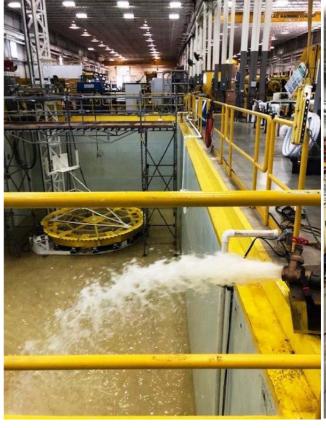
## **RVI Training – Milwaukee Training Facility**





**Setup Working Platform** 

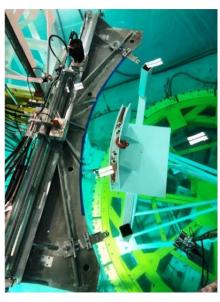
**AVL Controls Setup** 





### **Commencing Flood Up**

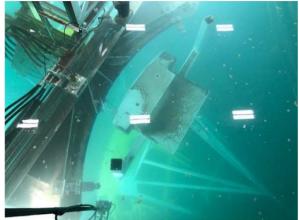
### **Test Pool Flooded with WASS-TCS**





**Test Piece Ready to be cut** 

First Cut on CB Test Piece





PA Rim Test Piece on TCS
CRDMs, ICIs, and Service Structure Setup

7.5" Thick Cut on PA Rim Test Piece

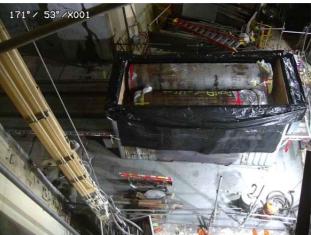




**Removal of CRDM Cables** 

## **Reactor Coolant System Pipe Removal**







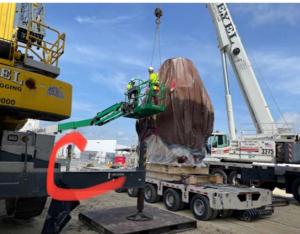


**Reactor Coolant System Pumps and Motors Removal** 









**Reactor Coolant System Pressurizer Removal** 







### **Steam Generator Removal**





## **Turbine Building System Removal and Turbine Removal**



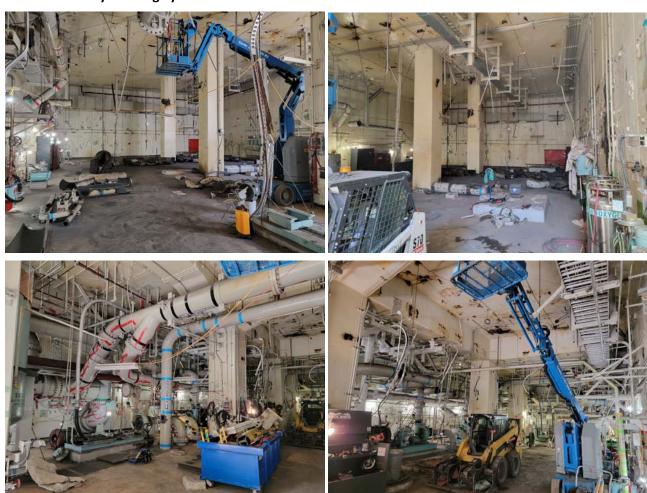


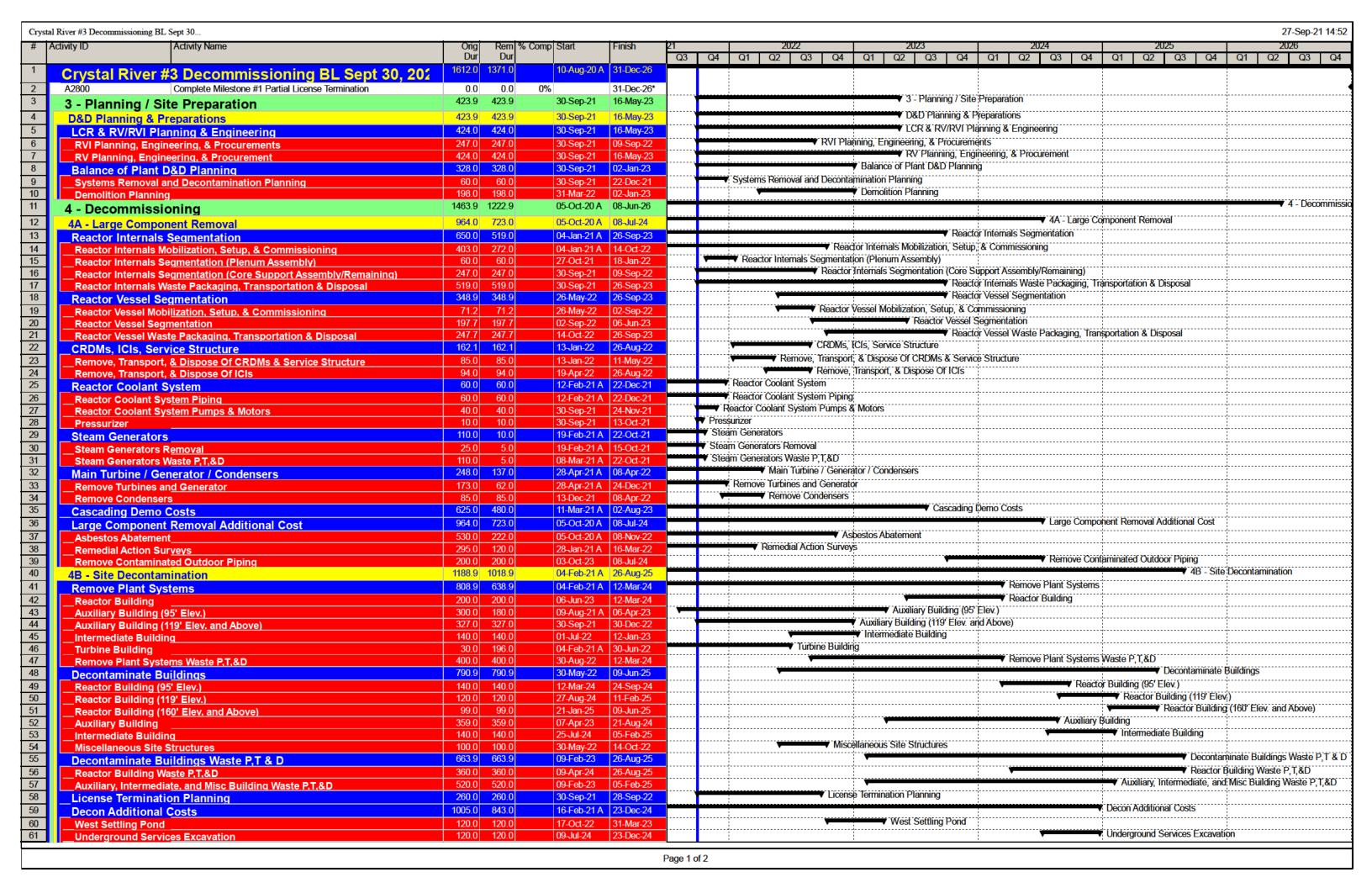




Site Decon – Remove Plant Systems

Auxiliary Building Systems Removal





‡   <i>F</i>	Activity ID Activity Name	Orig	Rem	% Comp	Start	Finish	21			2022				2023				2024			2	2025			2026	
		Dur	Dur				Q3	Q4	Q1 Q	)2 Q3	3 Q4	Q1	Q	2 Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 C	Q2 Q	(3 Q4
2	Remedial Action Surveys	282.0	120.0		16-Feb-21 A	16-Mar-22			✓ Ren	nedial Ad		veys														
3	Tooling and Equipment	80.0	80.0		03-Jan-23	24-Apr-23							7	Tooling an	d Equipn	nent				1			<u> </u>			
	Lead Abatement	200.0	200.0		18-Jan-23	24-Oct-23						<b>*</b>			▼ Lea	ad Abate	ment									
	4F - License Termination	260.0	260.0		09-Jun-25	08-Jun-26															٧				<b>-</b> 7 4F -	License Te
	License Termination Planning, Final Surveys, Reporting	260.0	260.0		09-Jun-25	08-Jun-26															٧		-		Lice	nse Termir
	License Termination	140.0	140.0		09-Jun-25	22-Dec-25															•		▼ L			n
	Confirmation & Verification Surveys	110.0	110.0		13-Oct-25	16-Mar-26																	•	Cor		n & Verific
	Terminate License	60.0	60.0			08-Jun-26		]																4	Tem	ninate Lice
)	5 - Site Restoration	1353.9	1202.9		10-Aug-20 A	07-Dec-26						- 1				-				:						
	Demolition, Backfill, Grading	1144.9	1144.9		10-Aug-20 A	07-Dec-26						!														
	Site Restoration Additional Costs	1222.9	1071.9		23-Mar-21 A	05-Jun-26						!				!										Restoratio
П	Firing Range Closure	186.0	35.0		23-Mar-21 A	15-Jun-22		;		Finn	g Range	Closure				-										
	Concrete Crushing & Security Barriers	301.9	301.9		10-Apr-25	05-Jun-26						<del> </del>									<b>—</b>					crete Crust
7	Croncrete Crushing	282.9	282.9		10-Apr-25	11-May-26															<b>—</b>		:			ete Crushii
3	Security VBS	19.0	19.0		11-May-26	05-Jun-26																		A	Secu	urity VBS
7	CR3 D&D Project - GTCC Management	550.7	318.6		28-Oct-20 A	20-Dec-22						CR3 I	D&D P	Project - G	TCC Mar	nagemen	nt									

