



Dianne M. Triplett
DEPUTY GENERAL COUNSEL

January 12, 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.*; 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 January 06, 2022, for the quarter ending December 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 12th day of January, 2022.

/s/ Dianne M. Triplett

Attorney

<p>Suzanne Brownless Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 sbrownle@psc.state.fl.us</p> <p>Jon C. Moyle, Jr./ Karen A. Putnal Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com kputnal@moylelaw.com mqualls@moylelaw.com</p>	<p>Charles J. Rehwinkel Office of Public Counsel c/o The Florida Legislature 111 West Madison Street, Room 812 Tallahassee, FL 32399 rehwinkel.charles@leg.state.fl.us</p> <p>James W. Brew / Laura Wynn Baker Stone Mattheis Xenopoulos & Brew, PC 1025 Thomas Jefferson Street, NW Suite 800 West Washington, DC 20007-5201 jbrew@smxblaw.com lwb@smxblaw.com</p>
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Billy E. Reid, Decommissioning Program Manager

c.865.384.6789

BReid@NorthStar.com

ADP21-0037

January 6, 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 January 20, 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,

A handwritten signature in blue ink that reads "Billy E. Reid".

Billy E. Reid
Decommissioning Program Manager

Cc: Luke Self (ADP / NS)
David Pearson (ADP / NS)
Geoff Wilde (ADP / Orano)



ADP CR3, LLC

Decommissioning Quarterly Report

for quarter ending

December 2021

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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 October 1, through December 31, 2021.

This quarter commenced with the continuing work on the removal of the Reactor Coolant System completing removal and packaging of the Final 2 Segments of the Steam Generator, final removal of the Reactor Coolant System piping. Mobilization and setup was completed this quarter in support of the Reactor Vessel Internal Segmentation in preparation of starting segmentation activities at the beginning of 2022. Significant progress continued in the Turbine building, Auxiliary Building, and Diesel Generator Building. Building Demolition started on the Diesel Generator Building with planned completion Jan 2022. Planning and preparations continued for Reactor Vessel Internals. 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):
 - One NRC report made in the fourth quarter 2021
 - Two late rail shipment to WCS (Tropical Storm Mindy and Hurricane Nicholas contributed to transportation delays)
2. Receipt of any correspondence from any Governmental Authority of violation or finding:
NONE
3. 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.

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6.0 SUBMITTED AND PENDING REGULATORY SUBMITTALS

NRC

NUMBER	DATE	FROM ORG	FROM PERSON	SUBJECT	NRC ACCESSION #
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	White	DEF-Annual FFD Electronic Submittal (No letter sent)	ML21054A075
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.	ML21085A750
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	Dixon	Crystal River Unit 3 – Proof of Financial Protection	ML21098A197
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
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
3F0921-02	09/29/21	CR-3	Dixon	Crystal River Unit 3 – Reporting Related to the National Pollutant Discharge Elimination System (NPDES) Permit ID# FL0A00004 (Minor) (Rev. C)	ML21272A144
3F1021-01	10/21/21	CR-3	Dixon	Crystal River 3 – Report of Investigation Pursuant to 10 CFR 20, Appendix G	ML21294A042

Environmental

- AOC 12 - Firing Range Corrective Action Report - Received qualified approval, but need to address groundwater detections to demonstrate background conditions
- AOC 18 – Settling Pond – completed soil remediation and 50% of the post GW monitoring
- Collected a round of groundwater samples from ‘supplemental’ or new wells and to support the pending GW Background Eval (to address inorganic exceedances that are site wide and not related to historic operations or a release)
- Drafted the Phase II Supplemental Report
- Provided proposal to DEP for beneficial reuse of painted concrete
- Completed building sampling for the near team buildings based on DEP guidance
- Supported the Work Package for the UST removals
- Supported NPDES sampling and reporting
- Supported communications with DEF and DEP
- Developed input parameters to support RESRAD with respect to hydrgeo setting
- Working with the GPS to ensure data are compatible with base drawings.
- Supported DEF status calls per permitting/compliance
- See Summary of AOC Investigation Status - Attached

7.0 COMPLETED AND NEAR-TERM SCHEDULE MILESTONES

	PAY ITEM/MILESTONE	PLANNED COMPLETE	STATUS
3.1.1.1	Planning & Site Preparation Utilities Reactivation		100% Complete
3.1.1.2	Planning & Site Preparation Containment Access, Waste Handling Areas		100% Complete
3.1.2	Planning & Site Preparation Site Characterization		100% Complete
3.1.3.1	Planning & Site Preparation LCR and RV/RVI Planning and Engineering General transition Planning/Engineering		100% Complete
3.1.3.2	Planning & Site Preparation LCR and RV/RVI Planning and Engineering Site/Plant infrastructure Planning and Engineering		100% Complete
3.1.3.3	Planning & Site Preparation LCR and RV/RVI Planning and Engineering RVI Planning and Engineering	9/13/2022	75% Complete
3.1.3.4	Planning & Site Preparation LCR and RV/RVI Planning and Engineering RV Planning and Engineering	5/10/2023	40% Complete

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3.1.3.5	Planning & Site Preparation LCR and RV/RVI Planning and Engineering LCR Planning and Engineering		100% Complete
3.1.4.1	Planning & Site Preparation Balance of Plant D&D Planning Temporary Utilities, Site Preparation Planning		100% Complete
3.1.4.2	Planning & Site Preparation Balance of Plant D&D Planning Turbine, Condenser, Steam Generator Removal Planning		100% Complete
3.1.4.3	Planning & Site Preparation Balance of Plant D&D Planning Systems Removal and Decon Work Planning	7/31/2022	75% Complete
3.1.4.4	Planning & Site Preparation Balance of Plant D&D Planning Demolition Work Planning	3/31/2023	15% Complete
4.A.1.1	Large Component Removal Reactor Internals Segmentation Reactor Internals Mobilization, Setup & Commissioning		100% Complete
4.A.1.2	Large Component Removal Reactor Internals Segmentation Reactor Internals Segmentation (Plenum Assembly)	3/31/2022	5% Complete
4.A.1.3	Large Component Removal Reactor Internals Segmentation Reactor Internals Segmentation (Core Support Assembly/Remaining)	9/30/2022	0% Complete
4.A.3	Large Component Removal Reactor Vessel Segmentation Reactor CRDMs, ICIs, Services Structure	8/25/2022	20% 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	01/31/2022	85% Complete
4.A.7.1	Large Component Removal	7/31/2022	5% Complete

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	Condenser Removal		
4.B.1.2	Site Decontamination Remove Plant Systems Auxiliary Building elev 95'	4/06/2023	20% Complete
4.B.1.5	Site Decontamination Remove Plant Systems Turbine Building	6/30/2022	65% Complete
4.B.4	Site Decontamination Decontaminate Buildings License Termination Planning	7/31/2022	10% Complete
4.B.5.1	Site Decontamination Decontaminate Buildings West Settling Pond Remediation	3/31/2022	85% 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	01/31/2022	65% 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

Large Component Removal Work

Reactor Coolant System Pipe Removal – Last Piece



Reactor Coolant System Pumps, Motors & Pressurizer Disposal



RVI Mobilization and Setup

WASS/TCS Installation and Testing



FTC Floor Plates Installed



Hydraulic Pump Setup

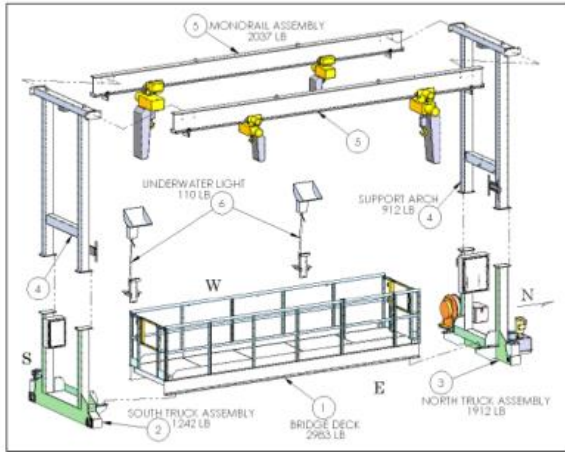


WASS/TCS installed



WASS/TCS Segmentation Work Station

Work Bridge Installation



CRDM Removal



ICI Removal



ICI pit with all ICI retracted and tethered in preparation for flood up and underwater segmentation

Steam Generator Removal Final 2 Segments

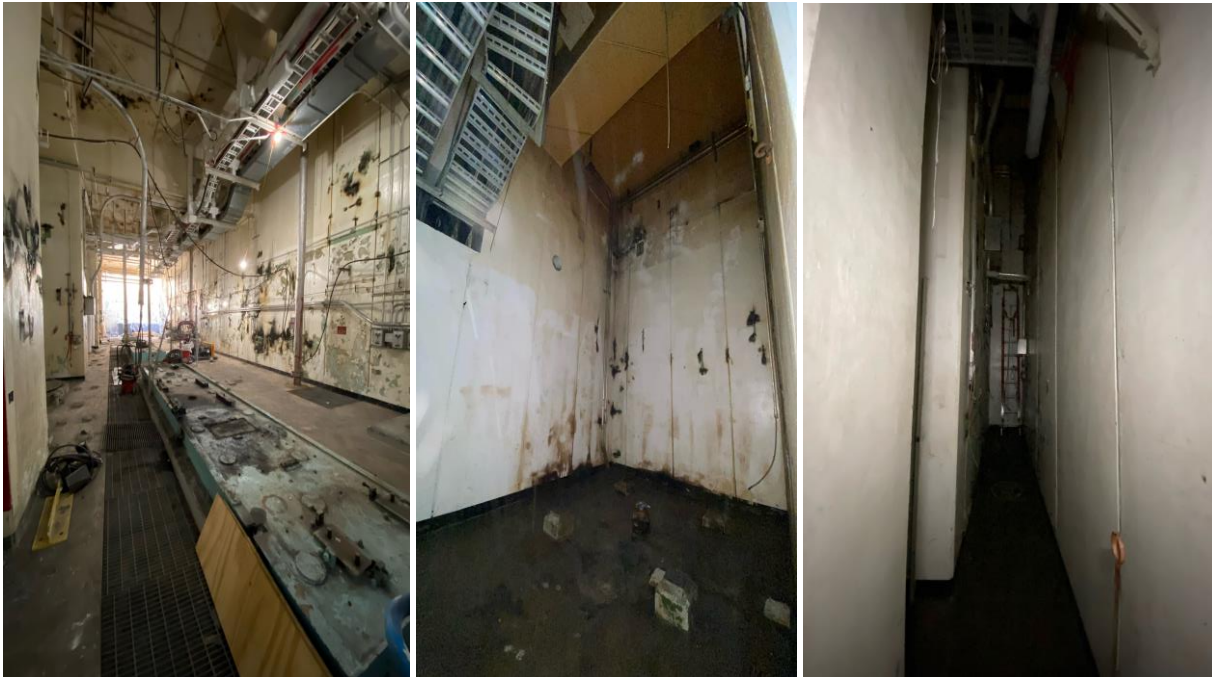


Turbine Removal



Site Decon – Remove Plant Systems

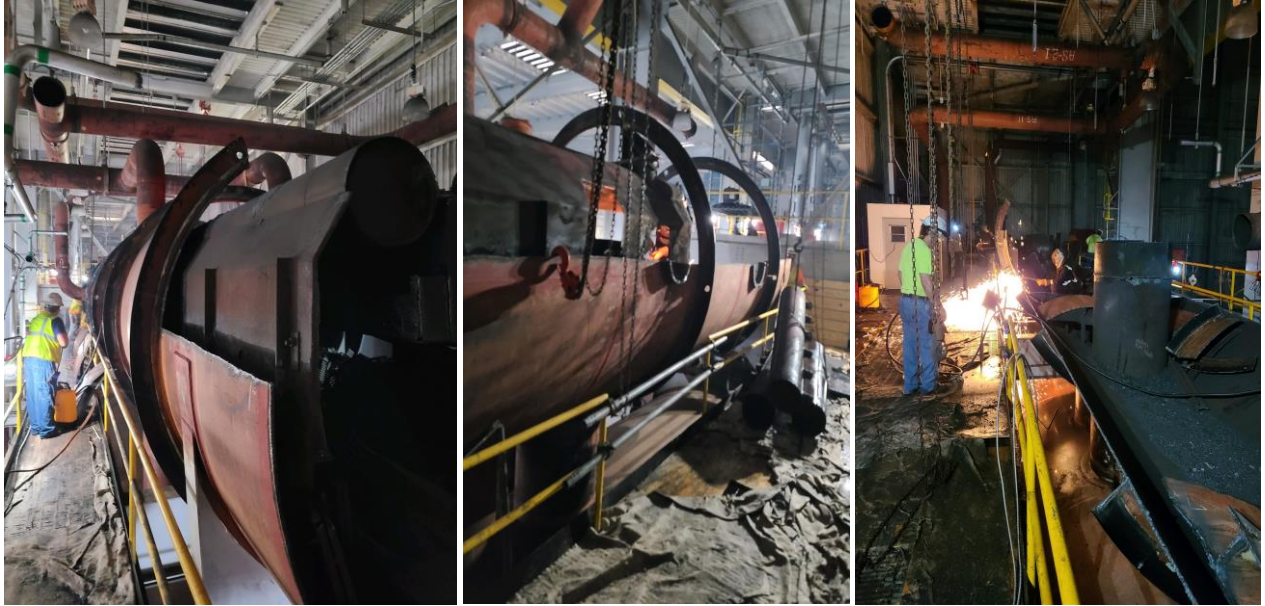
Auxiliary Building Systems Removal



Turbine Building Systems Removal



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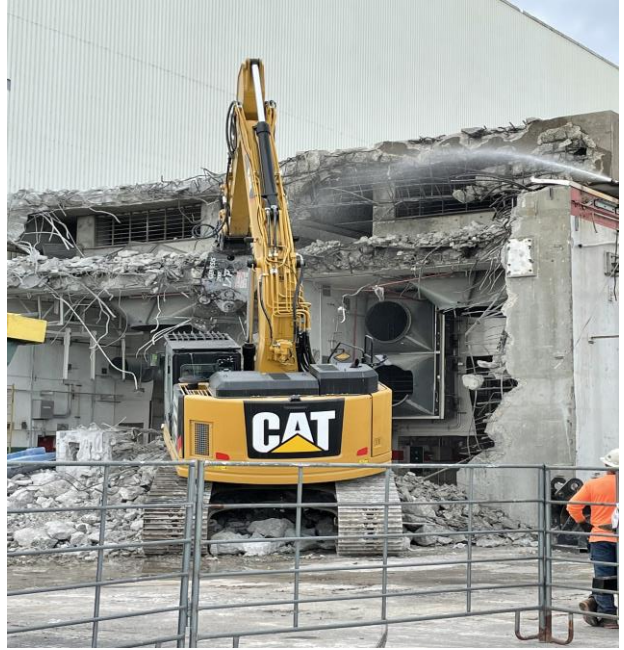
Diesel Generator Building Systems Removal



Site Decon – Pond Remediation



Site Restoration – Diesel Gen Bldg Demo



Activity ID	Activity Name	Ong Dur	Rem Dur	% Comp	Start	Finish	2022				2023				2024				2025				2026			
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Crystal River #3 Decommissioning BL November 30, 2021 Sche																										
A2800	Complete Milestone #1 Partial License Termination	0.0	0.0	0%	10-Aug-20 A	31-Dec-26																				
3 - Planning / Site Preparation		145.0	356.0		30-Aug-21 A	12-May-23																				
D&D Planning & Preparations		145.0	356.0		30-Aug-21 A	12-May-23																				
LCR & RV/RVI Planning & Engineering		145.0	356.0		30-Aug-21 A	12-May-23																				
RV Planning, Engineering, & Procurements		253.0	164.0		30-Aug-21 A	17-Aug-22																				
RV Planning, Engineering, & Procurement		356.0	356.0		31-Dec-21	12-May-23																				
Balance of Plant D&D Planning		242.0	242.0		31-Dec-21	05-Dec-22																				
Systems Removal and Decontamination Planning		60.0	60.0		31-Dec-21	24-Mar-22																				
Demolition Planning		178.0	178.0		31-Mar-22	05-Dec-22																				
4 - Decommissioning		462.0	155.0		05-Oct-20 A	04-Jun-26																				
4A - Large Component Removal		364.0	657.0		05-Oct-20 A	08-Jul-24																				
Reactor Internals Segmentation		151.0	451.0		31-Dec-21	22-Sep-23																				
Reactor Internals Segmentation (Plenum Assembly)		49.0	49.0		31-Dec-21	09-Mar-22																				
Reactor Internals Segmentation (Core Support Assembly/Remaining)		144.0	144.0		28-Jan-22	17-Aug-22																				
Reactor Internals Waste Packaging, Transportation & Disposal		151.0	451.0		31-Dec-21	22-Sep-23																				
Reactor Vessel Segmentation		349.0	349.0		24-May-22	22-Sep-23																				
Reactor Vessel Mobilization, Setup, & Commissioning		75.0	75.0		24-May-22	05-Sep-22																				
Reactor Vessel Segmentation		194.0	194.0		06-Sep-22	02-Jun-23																				
Reactor Vessel Waste Packaging, Transportation & Disposal		244.0	244.0		18-Oct-22	22-Sep-23																				
CRDMs, ICIs, Service Structure		60.0	53.0		19-Jul-21 A	06-Apr-22																				
Remove, Transport, & Dispose Of CRDMs & Service Structure		60.0	53.0		19-Jul-21 A	06-Apr-22																				
Remove, Transport, & Dispose Of ICIs		40.0	40.0		09-Dec-21 A	24-Mar-22																				
Main Turbine / Generator / Condensers		314.0	137.0		28-Apr-21 A	11-Jul-22																				
Remove Turbines and Generator		209.0	32.0		28-Apr-21 A	14-Feb-22																				
Remove Condensers		115.0	115.0		01-Feb-22	11-Jul-22																				
Cascading Demo Costs		325.0	414.0		11-Mar-21 A	02-Aug-23																				
Large Component Removal Additional Cost		364.0	657.0		05-Oct-20 A	08-Jul-24																				
Asbestos Abatement		530.0	222.0		05-Oct-20 A	08-Nov-22																				
Remedial Action Surveys		361.0	120.0		28-Jan-21 A	16-Jun-22																				
Remove Contaminated Outdoor Piping		200.0	200.0		03-Oct-23	08-Jul-24																				
4B - Site Decontamination		187.0	951.0		04-Feb-21 A	22-Aug-25																				
Remove Plant Systems		307.0	571.0		04-Feb-21 A	08-Mar-24																				
Reactor Building		200.0	200.0		05-Jun-23	08-Mar-24																				
Auxiliary Building (95' Elev.)		140.0	120.0		08-Sep-21 A	06-Apr-23																				
Auxiliary Building (119' Elev. and Above)		81.0	261.0		04-Oct-21 A	30-Dec-22																				
Intermediate Building		140.0	140.0		23-Sep-22	06-Apr-23																				
Turbine Building		30.0	130.0		04-Feb-21 A	30-Jun-22																				
Remove Plant Systems Waste P,T,&D		400.0	400.0		29-Aug-22	08-Mar-24																				
Decontaminate Buildings		789.0	789.0		30-May-22	05-Jun-25																				
Reactor Building (95' Elev.)		140.0	140.0		11-Mar-24	20-Sep-24																				
Reactor Building (119' Elev.)		120.0	120.0		26-Aug-24	07-Feb-25																				
Reactor Building (160' Elev. and Above)		99.0	99.0		20-Jan-25	05-Jun-25																				
Auxiliary Building		359.0	359.0		07-Apr-23	21-Aug-24																				
Intermediate Building		140.0	140.0		25-Jul-24	05-Feb-25																				
Miscellaneous Site Structures		100.0	100.0		30-May-22	14-Oct-22																				
Decontaminate Buildings Waste P,T & D		362.0	662.0		09-Feb-23	22-Aug-25																				
Reactor Building Waste P,T,&D		360.0	360.0		08-Apr-24	22-Aug-25																				
Auxiliary, Intermediate, and Misc Building Waste P,T,&D		520.0	520.0		09-Feb-23	05-Feb-25																				
License Termination Planning		136.0	136.0		11-Jan-22	19-Jul-22																				
Decon Additional Costs		005.0	777.0		16-Feb-21 A	23-Dec-24																				
West Settling Pond		10.0	10.0		01-Mar-22	14-Mar-22																				
Underground Services Excavation		120.0	120.0		09-Jul-24	23-Dec-24																				
Remedial Action Surveys		348.0	120.0		16-Feb-21 A	16-Jun-22																				
Tooling and Equipment		40.0	40.0		06-Dec-22	30-Jan-23																				
Lead Abatement		200.0	200.0		18-Jan-23	24-Oct-23																				
4F - License Termination		260.0	260.0		06-Jun-25	04-Jun-26																				
License Termination Planning, Final Surveys, Reporting		260.0	260.0		06-Jun-25	04-Jun-26																				
License Termination		140.0	140.0		06-Jun-25	18-Dec-25																				
Confirmation & Verification Surveys		110.0	110.0		10-Oct-25	12-Mar-26																				

Activity ID	Activity Name	Orig Dur	Rem Dur	% Comp	Start	Finish	2022				2023				2024				2025				2026				
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
	Terminate License	60.0	60.0		13-Mar-26	04-Jun-26																					Terminate License
	5 - Site Restoration	155.0	155.0		10-Aug-20 A	03-Dec-26																					
	Demolition, Backfill, Grading	155.0	155.0		10-Aug-20 A	03-Dec-26																					
	Site Restoration Additional Costs	170.0	170.0		10-Apr-25	03-Dec-25																Site Restoration Additional Costs					
	Concrete Crushing & Security Barriers	170.0	170.0		10-Apr-25	03-Dec-25																Concrete Crushing & Security Barriers					
	Concrete Crushing	151.0	151.0		10-Apr-25	06-Nov-25																Concrete Crushing					
	Security VBS	19.0	19.0		07-Nov-25	03-Dec-25																Security VBS					
	CR3 D&D Project - GTCC Management	182.1	184.0		28-Oct-20 A	14-Sep-22	CR3 D&D Project - GTCC Management																				

Activity ID	Activity Name	Orig Dur	Rem Dur	% Comp	Start	Finish	Total Float	2022				2023				2024				2025				2026			
								Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Crystal River #3 Decommissioning BL November 30, 2021 Sche																											
A2800	Complete Milestone #1 Partial License Termination	0.0	0.0	0%	27-Sep-21 A	31-Dec-26*	0.0																				
3 - Planning / Site Preparation																											
D&D Planning & Preparations																											
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D&D Planning & Preparations																											
LCR & RV/RVI Planning & Engineering																											
RVI Planning, Engineering, & Procurements																											
4 - Decommissioning																											
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License Termination Planning, Final Surveys, Reporting																											
License Termination																											
Confirmation & Verification Surveys																											
Terminate License																											
5 - Site Restoration																											
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Demolition, Backfill, Grading																											