



Dianne M. Triplett  
DEPUTY GENERAL COUNSEL

April 20, 2021

**VIA ELECTRONIC FILING**

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

Re: Crystal River Unit 3 – DEF Annual Report to NRC; *Undocketed*

Dear Mr. Teitzman:

Pursuant to and in compliance with Rule 25-6.04365(6), F.A.C., please find attached for filing on behalf of Duke Energy Florida, LLC, recent correspondence to the Nuclear Regulatory Commission (“NRC”) providing the Annual Decommissioning Financial Status Report, Estimate of Costs to Complete Decommissioning and Financial Assurance Demonstration, and Projected Cash Flow Analysis for Irradiated Fuel Management for 2020.

Thank you for your assistance in this matter. If you have any questions, please feel free to contact me at (727) 820-4692.

Sincerely,

*/s/ Dianne M. Triplett*

Dianne M. Triplett

DMT/cmck  
Attachment



# ADP CR3, LLC

17101 Preston Road, Suite 115 | Dallas, TX 75248

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**Scott E. State, P.E.**, Chief Nuclear Officer

[sstate@NorthStar.com](mailto:sstate@NorthStar.com) | o.682.503.2240 | c.303.898.8035

10 CFR 50.82

10 CFR 50.75

**March 29, 2021**

3F0321-06

U.S. Nuclear Regulatory Commission

Attn: Document Control Desk

Washington, DC 20555-0001

**Subject:** Crystal River 3 – Annual Decommissioning and Irradiated Fuel Management  
Financial Status Report for 2020

**References:**

1. Letter, Duke Energy Florida, LLC to USNRC, “Application for Order Consenting to Direct Transfer of Control of Licenses and Approving Conforming License Amendment,” dated June 14, 2019 (ML19170A194)
2. Letters, ADP CR3, LLC to USNRC, “Crystal River Unit 3 Nuclear Generating Plant Notification of Revised Post-Shutdown Decommissioning Activities Report, dated June 26, 2019, and Supplemental Information in Support of Revised Post Shutdown Decommissioning Activities Report and Decommissioning Cost Estimate, dated December 26, 2019 (ML19177A232 and ML20006F022)
3. Letter, USNRC to Duke Energy Florida, LLC, “Crystal River Unit 3 Nuclear Generating Plant Order Approving Transfer of Licensed Authority from Duke Energy Florida, LLC to ADP CR3, LLC and draft conforming administrative license amendment (EPID L-2019-LLA-0135),” dated April 1, 2020 (ADAMS Accession Nos. ML20069A023, ML20069A024, ML20069A025, ML20069A026, ML20069A027, ML20101G582 and ML20101G583)
4. Letter, USNRC to Duke Energy Florida, LLC, “Crystal River Unit 3 Nuclear Generating Plant – Issuance of Amendment No. 258 RE: Order Approving Transfer of Licensed Authority from Duke Energy Florida, LLC to ADP CR3, LLC and Conforming License Amendment (EPID L-2019-LLA-0135),” dated October 1, 2020 (ML20253A343)
5. Letter, ADP CR3 to USNRC, “Crystal River 3 ISFSI Decommissioning Trust,” dated October 28, 2020 (ML20302A453)
6. Letter, ADP CR3 to USNRC, “Application for Order Approving Indirect Transfers of Control of Licenses in Connection with Internal Corporate Reorganization,” dated November 19, 2020 (ML20324A058)

Dear Sir or Madam:

10 CFR 50.75(f)(1) requires each shutdown power reactor licensee to annually report to the NRC the status of their decommissioning financial assurance by March 31.

10 CFR 50.82(a)(8)(v) & (vii) require that after submitting its site-specific decommissioning cost estimate pursuant to 10 CFR 50.82(a)(4)(i), a licensee must annually submit to the NRC, by March 31, a report on the status of its decommissioning expenditures, remaining costs and funding assurance levels, as well as a report on the status of its funding for managing irradiated fuel.

A change to the spent fuel management strategy was described by Duke Energy Florida, LLC (DEF), ADP CR3, LLC (ADP CR3), and ADP SF1, LLC (ADP SF1) in the application for license transfer (Reference 1) and was approved by the NRC in Reference 3. Under the terms of the license transfer, ADP CR3 became the NRC operator licensee responsible for all activities under the Crystal River Unit 3 Nuclear Plant (CR3) license. Under a Purchase and Sale Agreement (PSA) with DEF as part of the license transfer, ADP SF1 acquired the ISFSI, its associated equipment, the high-level radioactive and greater than Class C (GTCC) waste, and title to the spent nuclear fuel. DEF also assigned to ADP SF1 its Standard Contract for Disposal of Spent Nuclear Fuel and/or High-Level Radioactive Waste with the U.S. Department of Energy (DOE). ADP SF1 entered into an operating agreement with ADP CR3, to possess and maintain the ISFSI, its associated equipment, and spent nuclear fuel.

As the NRC owner licensee, DEF continues to own the CR3 facility, with the exception of the assets described above, and its nuclear decommissioning trust (NDF). In addition to maintaining the NDF, DEF is responsible for disbursement of funds to pay for the costs of decommissioning as work is completed.

As a result of the PSA, after October 1, 2020, funding for spent fuel management costs for CR3 is no longer provided by the NDF. Funding for spent fuel management is provided by the ADP SF1 parent companies, NorthStar and Orano. The projected irradiated fuel management costs were submitted with the revised PSDAR in Reference 2, and an updated cash flow analysis was included in Reference 6. A dedicated ISFSI Decommissioning Trust Fund has been established by ADP SF1 in accordance with the Order approving the license transfer as described in Reference 5.

Accordingly, ADP CR3, LLC, hereby submits the status of its decommissioning financial assurance (Attachment 1), the estimated costs to complete decommissioning and financial assurance demonstration (Attachment 2), and the projected cash flow analysis for irradiated fuel management (Attachment 3) for Crystal River Nuclear Plant. All or most of the spent fuel management costs are a liability of the U.S. Government as a result of its breach of the spent fuel disposal contract.

This letter contains no new regulatory commitments.

If you have any questions regarding this submittal, please contact Mr. Mark Van Sicklen, ADP CR3, LLC Licensing Manager, at (352) 436-5572.

Sincerely,  
**ADP CR3, LLC**

A handwritten signature in black ink, appearing to read "Scott State".

**Scott E. State, P.E.**  
Chief Nuclear Officer

Attachments:

Attachment 1 – CR3 Annual Decommissioning Financial Status Report for 2020

Attachment 2 – CR3 Estimate of Costs to Complete Decommissioning and Financial Assurance Demonstration

Attachment 3 – CR3 Projected Cash Flow Analysis for Irradiated Fuel Management

cc: NMSS Project Manager  
Regional Administrator, Region I  
ADP: Gregory G. DiCarlo, Jeff Adix, Sam Shakir, Geoff Wilde  
Duke Energy: Terry Hobbs, Tracey LeRoy

**ADP CR3, LLC**

**DOCKET NUMBERS 50-302 / 72-035  
LICENSE NUMBER DPR – 72**

**ATTACHMENT 1**

**CR3 ANNUAL DECOMMISSIONING  
FINANCIAL STATUS REPORT FOR 2020**

**ADP CR3, LLC**  
**Status of Decommissioning Funding Crystal River Nuclear Plant**  
**As of December 31, 2020 – 10 CFR 50.75(f)(1) and 10 CFR 50.82(a)(8)(v)**

**10 CFR 50.75(f)(1)**

*(Thousands of Dollars)*

|  |   |
|--|---|
| 1. Minimum Financial Assurance (MFA)   | \$450,186 [Note 1]  |
| 2. ISFSI Obligation as of 12/31/2020   | \$5,407 [Note 2]  |
| 3. Decommissioning Trust Fund Balance as of 12/31/2020   | \$635,904 [Note 3]  |
| 4. A schedule of the annual amounts remaining to be collected  | \$28,126 [Note 4]   |
| 5. Assumptions used in determining rates of escalation in decommissioning costs, rates of earnings on decommissioning funds, and rates of other factors used in funding projections. | 2% annual real rate of return per 10 CFR 50.75(e)(1)(i)   |
| 6. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v)  | None  |
| 7. Modifications occurring to a licensee's current method of providing financial assurance since the last submitted report   | Financial Support Agreements from NorthStar Group Services, Inc. and Orano USA LLC, a Provisional Trust, and an ISFSI Decommissioning Trust have been established as described in the Safety Evaluation Report for the CR-3 License Transfer (ML 20101G583) |
| 8. Any material changes to trust agreements  | NDF subaccounts were created to establish an "IOI Decommissioning Account" and a "Crystal River Reserve Account" as described in the Safety Evaluation Report for the CR-3 License Transfer (ML 20101G583)  |

Note 1: This amount is based upon total DECON expenditures for radiological remediation and license termination set forth in the updated Decommissioning Funding Assurance Plan and PROMPT DECON analysis provided in Attachment 2 (Column 1 plus Column 2). This is the amount of decommissioning funds estimated to be required for remaining License Termination Costs.

Note 2: ISFSI Obligation is funded by the ISFSI Decommissioning Trust Account(See Table 2.1).

Note 3: NDF Balance - \$614,029 plus Provisional Trust Balance \$21,875.

Note 4: Reflects ADP contributions pursuant to the terms of the Decommissioning Services Agreement (DSA). The DSA requires ADP contributions equal to 6% of each payment from Company Funds for invoices issued for work performed after October 1, 2020 until the Provisional Fund balance reaches \$50,000 in cash. \$28,126 reflects ADP's remaining obligation as of 12.31.2020, which will be funded from the amount in line 3 as work is completed.

**ADP CR3, LLC**  
**Status of Decommissioning Funding Crystal River Nuclear Plant**  
**As of December 31, 2020 – 10 CFR 50.75(f)(1) and 10 CFR 50.82(a)(8)(v)**

**10 CFR 50.82(a)(8)(v) & (vi)**

*(Thousands of Dollars)*

|   |   |
|---|---|
| 1. Cumulative decommissioning spending through 12/31/2020                     | \$190,705 [Note 1]  |
| 2. 2020 decommissioning spending  | \$79,823 [Note 2]   |
| 3. Decommissioning Trust Fund & Provisional Trust Fund Total as of 12/31/2020 | \$635,904 [Note 3]  |
| 4. Additional planned contributions to the Provisional Trust Account          | \$28,126 [Note 4]   |
| 5. Estimated costs to complete from the latest estimate.                      | \$450,186<br><i>(See #1 above in 10 CFR 50.75 information)</i><br><br>ADP CR3 has projected the cost of managing irradiated fuel until title to the fuel and possession of the fuel is transferred to the Department of Energy based on the assumption that DOE pickup of fuel no later than 2037. The cost analysis is provided in Attachment 3. |
| 6. Estimate based on unrestricted release of the site per 10 CFR 20.1402      | See Attachment 2  |
| 7. Modifications to Financial Assurance Since Last Report                     | Financial Support Agreements from NorthStar Group Services, Inc. and Orano USA LLC, a Provisional Trust, and an ISFSI Decommissioning Trust have been established as described in the Safety Evaluation Report for the CR-3 License Transfer (ML 20101G583)   |
| 8. Any material changes to trust agreements                                   | NDF subaccounts were created to establish an "IOI Decommissioning Account" and a "Crystal River Reserve Account" as described in the Safety Evaluation Report for the CR-3 License Transfer (ML 20101G583)  |

Note 1: Cumulative Spending (\$110,882) through 12.31.2019 per DEF Report, dated March 19, 2020 (3F0320-03) plus 2020 decommissioning spending (\$79,823).

Note 2: Represents the amount actually disbursed from the fund for calendar year 2020.

Note 3: NDF Balance - \$614,029 plus Provisional Trust Balance \$21,875.

Note 4: Reflects ADP contributions pursuant to the terms of the Decommissioning Services Agreement (DSA). The DSA requires ADP contributions equal to 6% of each payment from Company funds for invoices issued for work performed after October 1, 2020 until the Provisional Fund balance reaches \$50,000 in cash. \$28,126 reflects ADP's remaining obligation as of 12.31.2020, which will be funded from the amount in line 3 as work is completed.

**ADP CR3, LLC**

**DOCKET NUMBERS 50-302 / 72-035  
LICENSE NUMBER DPR – 72**

**ATTACHMENT 2**

**CR3 ESTIMATE OF COSTS TO COMPLETE  
DECOMMISSIONING AND FINANCIAL  
ASSURANCE DEMONSTRATION**

**CR3 ESTIMATE OF COSTS TO COMPLETE DECOMMISSIONING AND  
 FINANCIAL ASSURANCE DEMONSTRATION**

**Table 2.1**

*(Thousands of Dollars)*

| <b>Crystal River Unit 3 Nuclear Power Station - PROMPT DECON Methodology</b>                  |   |                                      |                       |                  |   |                  |   |                         |                          |
|---|---|--------------------------------------|-----------------------|------------------|---|------------------|---|-------------------------|--------------------------|
| <b>Annual Cash Flow Analysis - Total License Termination and Site Restoration - TABLE 2.1</b> |   |                                      |                       |                  |   |                  |   |                         |                          |
| (Thousands of 2021 Dollars) - See column definitions below                                    |   |                                      |                       |                  |   |                  |   |                         |                          |
|   | Column 1                                  | Column 2                             | Column 3              | Column 4         | Column 5                                      | Column 6         | Column 7  | Column 8                | Column 9                 |
| Year  | License Termination Cost (ADP-Contractor) | License Termination Cost (DEF-Owner) | Site Restoration Cost | Total Expenses   | Beginning of Period Funded Balance (NDF + PT) | NDT Withdrawals  | Net Incremental Contributions & (Distributions) Provisional Trust | Annual Earnings on Fund | End-Of-Year Fund Balance |
| 2021  | \$101,496                                 | \$1,788                              | \$250                 | \$103,534        | \$635,904                                     | \$103,534        | \$8,343   | \$10,647                | \$551,360                |
| 2022  | \$106,077                                 | \$1,511                              | \$5,220               | \$112,808        | \$551,360                                     | \$112,808        | \$6,678   | \$8,771                 | \$454,002                |
| 2023  | \$103,946                                 | \$1,541                              | \$1,055               | \$106,542        | \$454,002                                     | \$106,542        | \$6,300   | \$6,949                 | \$360,709                |
| 2024  | \$65,753                                  | \$1,572                              | \$1,693               | \$69,018         | \$360,709                                     | \$69,018         | \$4,047   | \$5,834                 | \$301,572                |
| 2025  | \$42,799                                  | \$1,603                              | \$5,988               | \$50,390         | \$301,572                                     | \$50,390         | \$2,758   | \$5,024                 | \$258,964                |
| 2026  | \$11,343                                  | \$1,635                              | \$25,836              | \$38,814         | \$258,964                                     | \$38,814         | \$0   | \$4,403                 | \$224,553                |
| 2027  | \$0                                       | \$680                                | \$0                   | \$680            | \$224,553                                     | \$18,919         | -\$55,878   | \$4,113                 | \$153,868                |
| 2028  | \$0                                       | \$694                                | \$0                   | \$694            | \$153,868                                     | \$694            | \$0   | \$3,063                 | \$156,238                |
| 2029  | \$0                                       | \$708                                | \$0                   | \$708            | \$156,238                                     | \$708            | \$0   | \$3,111                 | \$158,641                |
| 2030  | \$0                                       | \$722                                | \$0                   | \$722            | \$158,641                                     | \$722            | \$0   | \$3,158                 | \$161,077                |
| 2031  | \$0                                       | \$736                                | \$0                   | \$736            | \$161,077                                     | \$736            | \$0   | \$3,207                 | \$163,548                |
| 2032  | \$0                                       | \$751                                | \$0                   | \$751            | \$163,548                                     | \$751            | \$0   | \$3,256                 | \$166,053                |
| 2033  | \$0                                       | \$766                                | \$0                   | \$766            | \$166,053                                     | \$766            | \$0   | \$3,306                 | \$168,592                |
| 2034  | \$0                                       | \$781                                | \$0                   | \$781            | \$168,592                                     | \$781            | \$0   | \$3,356                 | \$171,167                |
| 2035  | \$0                                       | \$797                                | \$0                   | \$797            | \$171,167                                     | \$797            | \$0   | \$3,407                 | \$173,778                |
| 2036  | \$0                                       | \$813                                | \$0                   | \$813            | \$173,778                                     | \$813            | \$0   | \$3,459                 | \$176,424                |
| 2037  | \$0                                       | \$829                                | \$0                   | \$829            | \$176,424                                     | \$829            | \$0   | \$3,512                 | \$179,107                |
| 2038  | \$0                                       | \$846                                | \$0                   | \$846            | \$179,107                                     | \$846            | \$0   | \$3,565                 | \$181,826                |
| <b>TOTAL</b>  | <b>\$431,414</b>                          | <b>\$18,772</b>                      | <b>\$40,042</b>       | <b>\$481,785</b> | <b>\$635,904</b>                              | <b>\$508,467</b> | <b>-\$27,752</b>  | <b>\$82,142</b>         | <b>\$181,826</b>         |

**Table 2.1 Definitions:**

|                         |   |
|-------------------------|---|
| <b><u>Column 1:</u></b> | <b>License Termination Cost - (ADP-Contractor)</b><br>Reflects the Total Annual License Termination Plan cost for ADP (Contractor) in 2021 dollars at a 2% escalation rate.   |
| <b><u>Column 2:</u></b> | <b>License Termination Cost – (DEF-Owner)</b><br>Reflects the Total Annual License Termination Plan cost for DEF (Owner) in 2021 dollars at a 2% escalation rate.   |
| <b><u>Column 3:</u></b> | <b>Site Restoration Cost:</b><br>Reflects the Annual Site Restoration Plan cost in 2021 dollars at a 2% escalation rate.  |
| <b><u>Column 4:</u></b> | <b>Total Expenses</b><br>Reflects Total Expenses (Column 1 plus Column 2 plus Column 3)   |
| <b><u>Column 5:</u></b> | <b>Beginning of Period Funded Balance</b><br>Reflects the Funded Balance as of January 1 of each year thereafter. The Funded Balance includes the Nuclear Decommissioning Trust (NDF), plus the Provisional Trust (PT)<br><ul style="list-style-type: none"> <li>• January 1, 2021 Beginning of Period Funded Balances equal \$630,119 NDF Balance plus \$21,875 PT Balance</li> </ul>  |
| <b><u>Column 5:</u></b> | <b>NDF Withdrawals</b><br>Reflects the annual expenditures from the NDF in 2021 dollars at a 2% escalation rate.<br><ul style="list-style-type: none"> <li>• \$18,919 estimated withdrawal on January 1, 2027 reflects Total Expenses (\$680) plus final payment for achievement of the ISFSI-Only Interim End-State Conditions (\$18,239) pursuant to Section 9.3.4 of the Decommissioning Services Agreement (DSA) dated May 29, 2019 and Amended October 1, 2020.</li> </ul> |
| <b><u>Column 6:</u></b> | <b>ADP Net Incremental Contributions (Distributions) – Provisional Trust</b><br>Reflects ADP incremental contributions and (distributions) pursuant to the terms of the DSA.  |
| <b><u>Column 7:</u></b> | <b>Annual Earnings on Funds</b><br>Reflects earnings on funds remaining in the trust. A 2% Earnings rate is used over a 0% cost escalation rate. The annual 2% earnings are calculated on the Beginning Balance (Column 4) minus 100% of withdrawals (Column5) plus 100% of contributions (Columns 6) multiplied by the 2% annual earnings rate.  |
| <b><u>Column 8:</u></b> | <b>End of Year Fund Balance</b><br>Reflects the End-of-Year Trust Fund Balance.<br>- (Column 5 minus Column 6 plus Column 7 plus Column 8)  |

**ADP CR3, LLC**

**DOCKET NUMBERS 50-302 / 72-035  
LICENSE NUMBER DPR – 72**

**ATTACHMENT 3**

**CR3 PROJECTED CASH FLOW ANALYSIS  
FOR IRRADIATED FUEL MANAGEMENT**

**CR3 PROJECTED CASH FLOW ANALYSIS FOR IRRADIATED FUEL MANAGEMENT**

**Table 3.1**

*(Thousands of Dollars)*

| <b>Crystal River Unit 3 Nuclear Power Station - PROMPT DECON Methodology</b> |   |   |                        |                          |                                |                                 |
|--|---|---|------------------------|--------------------------|--------------------------------|---------------------------------|
| <b>Annual Cash Flow Analysis - ISFSI Decommissioning - Table 3.1</b>         |   |   |                        |                          |                                |                                 |
| <i>(Thousands of 2021 Dollars) - See column definitions below</i>            |   |   |                        |                          |                                |                                 |
| <b>Column 1</b>  | <b>Column 2</b>                           | <b>Column 3</b>                         | <b>Column 4</b>        | <b>Column 5</b>          | <b>Column 6</b>                |                                 |
| <b>Year</b>  | <b>Spent Fuel Management - ISFSI Demo</b> | <b>Beginning of Period Fund Balance</b> | <b>ADP Withdrawals</b> | <b>ADP Distributions</b> | <b>Annual Earnings on Fund</b> | <b>End-Of-Year Fund Balance</b> |
| <b>2021</b>  | \$0                                       | \$3,950                                 | \$0                    | \$0                      | \$79                           | \$4,029                         |
| <b>2022</b>  | \$0                                       | \$4,029                                 | \$0                    | \$0                      | \$81                           | \$4,110                         |
| <b>2023</b>  | \$0                                       | \$4,110                                 | \$0                    | \$0                      | \$82                           | \$4,192                         |
| <b>2024</b>  | \$0                                       | \$4,192                                 | \$0                    | \$0                      | \$84                           | \$4,276                         |
| <b>2025</b>  | \$0                                       | \$4,276                                 | \$0                    | \$0                      | \$86                           | \$4,361                         |
| <b>2026</b>  | \$0                                       | \$4,361                                 | \$0                    | \$0                      | \$87                           | \$4,449                         |
| <b>2027</b>  | \$0                                       | \$4,449                                 | \$0                    | \$0                      | \$89                           | \$4,538                         |
| <b>2028</b>  | \$0                                       | \$4,538                                 | \$0                    | \$0                      | \$91                           | \$4,628                         |
| <b>2029</b>  | \$0                                       | \$4,628                                 | \$0                    | \$0                      | \$93                           | \$4,721                         |
| <b>2030</b>  | \$0                                       | \$4,721                                 | \$0                    | \$0                      | \$94                           | \$4,815                         |
| <b>2031</b>  | \$0                                       | \$4,815                                 | \$0                    | \$0                      | \$96                           | \$4,912                         |
| <b>2032</b>  | \$0                                       | \$4,912                                 | \$0                    | \$0                      | \$98                           | \$5,010                         |
| <b>2033</b>  | \$0                                       | \$5,010                                 | \$0                    | \$0                      | \$100                          | \$5,110                         |
| <b>2034</b>  | \$0                                       | \$5,110                                 | \$0                    | \$0                      | \$102                          | \$5,212                         |
| <b>2035</b>  | \$0                                       | \$5,212                                 | \$0                    | \$0                      | \$104                          | \$5,317                         |
| <b>2036</b>  | \$0                                       | \$5,317                                 | \$0                    | \$0                      | \$106                          | \$5,423                         |
| <b>2037</b>  | \$5,407                                   | \$5,423                                 | \$5,407                | -\$16                    | \$0                            | \$0                             |
| <b>TOTAL</b>   | <b>\$5,407</b>                            | <b>\$3,950</b>                          | <b>\$5,407</b>         | <b>-\$16</b>             | <b>\$1,473</b>                 | <b>\$0</b>                      |

**Table 3.1 Definitions:**

|                         |   |
|-------------------------|---|
| <b><u>Column 1:</u></b> | <b>License Termination Cost</b><br>Reflects the Total ISFSI Decommissioning cost in 2021 dollars at a 2% escalation rate.   |
| <b><u>Column 2:</u></b> | <b>Beginning of Period Funded Balance</b><br>Reflects the Funded Balance as of January 1 of each year.  |
| <b><u>Column 3:</u></b> | <b>ADP Withdrawals</b><br>Reflects the annual expenditures from the fund in 2021 dollars at a 2% escalation rate.   |
| <b><u>Column 4:</u></b> | <b>ADP Distributions</b><br>Reflects distribution of residual ISFI Decommissioning funds upon completion of the ISFSI decommissioning.  |
| <b><u>Column 5:</u></b> | <b>Annual Earnings on Funds</b><br>Reflects earnings on funds remaining in the trust. A 2% Earnings rate is used over a 0% cost escalation rate. The annual 2% earnings are calculated on the Beginning Balance (Column 2) minus 100% of withdrawals (Columns 3) minus 100% of distributions (Columns 5) multiplied by the 2% annual earnings rate. |
| <b><u>Column 6:</u></b> | <b>End of Year Fund Balance</b><br>Reflects the End-of-Year Trust Fund Balance.<br>- (Column 2 minus Column 3 plus Column 4 plus Column 5)  |

**CR3 PROJECTED CASH FLOW ANALYSIS FOR IRRADIATED FUEL MANAGEMENT**

**Table 3.2**

*(Thousands of Dollars)*

| <b>Crystal River Unit 3 Nuclear Power Station - PROMPT DECON Methodology</b> |                                    |   |                        |  |                          |                                |                                 |
|--|------------------------------------|---|------------------------|--|--------------------------|--------------------------------|---------------------------------|
| <b>Annual Cash Flow Analysis - Irradiated Fuel Management - Table 3.2</b>    |                                    |   |                        |  |                          |                                |                                 |
| (Thousands of 2021 Dollars) - See column definitions below                   |                                    |   |                        |  |                          |                                |                                 |
|  | <b>Column 1</b>                    | <b>Column 2</b>                         | <b>Column 3</b>        | <b>Column 4</b>                                      | <b>Column 5</b>          | <b>Column 6</b>                | <b>Column 7</b>                 |
| <b>Year</b>  | <b>Spent Fuel Management Costs</b> | <b>Beginning of Period Fund Balance</b> | <b>ADP Withdrawals</b> | <b>ADP Incremental Contributions (Distributions)</b> | <b>DOE Cost Recovery</b> | <b>Annual Earnings on Fund</b> | <b>End-Of-Year Fund Balance</b> |
| <b>2021</b>  | \$9,931                            | \$0                                     | \$9,931                | \$10,500   | \$0                      | \$3                            | \$572                           |
| <b>2022</b>  | \$19,770                           | \$572                                   | \$19,770               | \$19,750   | \$0                      | \$3                            | \$554                           |
| <b>2023</b>  | \$9,617                            | \$554                                   | \$9,617                | -\$600   | \$10,191                 | \$3                            | \$531                           |
| <b>2024</b>  | \$8,464                            | \$531                                   | \$8,464                | -\$5,000   | \$19,770                 | \$34                           | \$6,871                         |
| <b>2025</b>  | \$8,634                            | \$6,871                                 | \$8,634                | \$0  | \$9,617                  | \$39                           | \$7,894                         |
| <b>2026</b>  | \$8,806                            | \$7,894                                 | \$8,806                | \$0  | \$17,379                 | \$82                           | \$16,549                        |
| <b>2027</b>  | \$12,302                           | \$16,549                                | \$12,302               | \$0  | \$8,806                  | \$65                           | \$13,119                        |
| <b>2028</b>  | \$12,548                           | \$13,119                                | \$12,548               | \$0  | \$12,601                 | \$66                           | \$13,237                        |
| <b>2029</b>  | \$12,799                           | \$13,237                                | \$12,799               | \$0  | \$12,548                 | \$65                           | \$13,051                        |
| <b>2030</b>  | \$13,055                           | \$13,051                                | \$13,055               | \$0  | \$12,799                 | \$64                           | \$12,859                        |
| <b>2031</b>  | \$13,316                           | \$12,859                                | \$13,316               | \$0  | \$13,372                 | \$65                           | \$12,980                        |
| <b>2032</b>  | \$13,583                           | \$12,980                                | \$13,583               | \$0  | \$13,316                 | \$64                           | \$12,777                        |
| <b>2033</b>  | \$13,854                           | \$12,777                                | \$13,854               | \$0  | \$13,583                 | \$63                           | \$12,568                        |
| <b>2034</b>  | \$14,131                           | \$12,568                                | \$14,131               | \$0  | \$14,191                 | \$63                           | \$12,690                        |
| <b>2035</b>  | \$14,414                           | \$12,690                                | \$14,414               | \$0  | \$14,131                 | \$62                           | \$12,470                        |
| <b>2036</b>  | \$14,702                           | \$12,470                                | \$14,702               | \$0  | \$14,414                 | \$61                           | \$12,242                        |
| <b>2037</b>  | \$79,214                           | \$12,242                                | \$79,214               | -\$123   | \$67,094                 | \$0                            | \$0                             |
| <b>TOTAL</b>   | <b>\$279,143</b>                   | <b>\$0</b>                              | <b>\$279,143</b>       | <b>\$24,527</b>                                      | <b>\$253,815</b>         | <b>\$801</b>                   | <b>\$0</b>                      |

**Table 3.2 Definitions:**

|                         |   |
|-------------------------|---|
| <b><u>Column 1:</u></b> | <b>Spent Fuel Management Costs</b><br>Reflects the Total Annual Spent Fuel Management cost in 2021 dollars at a 2% escalation rate.   |
| <b><u>Column 2:</u></b> | <b>Beginning of Period Funded Balance</b><br>Reflects the Funded Balance as of January 1 of each year.  |
| <b><u>Column 3:</u></b> | <b>ADP Withdrawals</b><br>Reflects the annual expenditures from the Irradiated Fuel Management Account in 2021 dollars at a 2% escalation rate paid by ADP SF1 pursuant to the SNF Services Agreement dated October 1, 2020.  |
| <b><u>Column 4:</u></b> | <b>ADP Incremental Contributions (Distributions)</b><br>Reflects ADP incremental contributions and (distributions).   |
| <b><u>Column 5:</u></b> | <b>DOE Cost Recovery</b><br>Reflects Cost Recovery from DOE for breach of the Standard Contract in 2020 dollars at a 2% escalation rate. <ul style="list-style-type: none"> <li>• Year 2023: \$10,191 recovery reflects initial NorthStar DOE settlement for costs incurred from 2020 thru 2021</li> <li>• Year 2037: \$67,094 reflects NorthStar DOE settlement for costs incurred in 2036 and 2037. (excludes recovery DOE Fuel Loading Costs - \$21,415 incurred in 2037)</li> </ul> |
| <b><u>Column 7:</u></b> | <b>Annual Earnings on Funds</b><br>Reflects earnings on funds remaining in the account. A 2% Earnings rate is used over a 0% cost escalation rate. The annual 2% earnings are calculated on the Beginning Balance (Column 4) minus 100% of withdrawals (Column5) plus 100% of contributions (Columns 6) multiplied by the 2% annual earnings rate.  |
| <b><u>Column 8:</u></b> | <b>End of Year Fund Balance</b><br>Reflects the End-of-Year Trust Fund Balance.<br>- (Column 2 minus Column 3 plus Column 4 plus Column 5 plus Column 6)  |