



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

October 13, 2021

Mr. Billy Reid
Site Vice President
ADP CR3, LLC
2760 South Falkenburg Road
Riverview, FL 33578

SUBJECT: CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT - ISSUANCE OF AMENDMENT NO. 259 APPROVING THE INDEPENDENT SPENT FUEL STORAGE INSTALLATION ONLY EMERGENCY PLAN, REVISION DRAFT A (EPID L-2021-LLA-0047)

Dear Mr. Reid:

The U.S. Nuclear Regulatory Commission (NRC) is issuing the enclosed Amendment No. 259 to Facility License No. DPR-72 for the Crystal River Unit 3 Nuclear Generating Plant (CR-3). This amendment is in response to the ADP CR3, LLC (ADP CR3; the licensee), application dated March 17, 2021 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML21076A386), as supplemented by letter dated August 18, 2021 (ADAMS Accession No. ML21230A191). This amendment revises the CR-3 license to approve Revision Draft A to the Independent Spent Fuel Storage Installation (ISFSI)-Only Emergency Plan.

As discussed in the enclosed safety evaluation, the NRC staff has reviewed the proposed changes to the CR-3 ISFSI-Only Emergency Plan (IOEP) and concluded that the proposed changes meet the standards of Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.47, "Emergency plans," and the requirements of Appendix E, "Emergency Planning and Preparedness for Production and Utilization facilities," to 10 CFR Part 50 and continue to provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency at the CR-3 site. Therefore, ADP CR3's proposed changes, as outlined in the letters referenced above, are considered acceptable. The basis for the NRC staff's conclusion is contained in the attached safety evaluation.

The amendment is provided as Enclosure 1. The amendment is effective upon issuance and shall be implemented within 60 days of the effective date. A copy of the related safety evaluation is also enclosed as Enclosure 2. A Notice of Issuance of this amendment will be included in the Commission's monthly *Federal Register* notice.

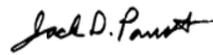
Pursuant to 10 CFR 51.22, "Criterion for categorical exclusion; identification of licensing and regulatory actions eligible for categorical exclusion or otherwise not requiring environmental review," paragraph (c)(10)(ii), for including the Emergency Action Level Technical Bases Document into the IOEP as an appendix and implementation of some additional editorial changes, that are changes to administrative procedures or requirements, and (c)(11), for deletion of the Response Manager position from the IOEP, which is a change that is administrative, organizational, or procedural in nature, the Commission has determined that the issuance of this amendment is categorically excluded and pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared. Approval of this amendment request involves no significant hazards consideration; no significant change in

the types or significant increase in the amounts of any effluents that may be released offsite; and no significant increase in individual or cumulative public or occupational radiation exposure. The supplemental letter dated August 18, 2021, provided additional information that clarified the application, but did not expand the scope of the application as originally noticed, or change the NRC's original proposed no significant hazards consideration determination as published in the *Federal Register* (FR) on May 18, 2021 (86 FR 26950).

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's ADAMS. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

If you or your staff have any questions regarding the above, please contact me at 301-415-6634 or via email at jack.parrott@nrc.gov.

Sincerely,



Signed by Parrott, Jack
on 10/13/21

Jack D. Parrott, Senior Project Manager
Reactor Decommissioning Branch
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety and Safeguards

Docket Nos.: 50-302 and 72-1035
License No.: DPR-72

Enclosures:

1. Amendment No. 259 to
License No. DPR-72
2. Safety Evaluation

cc: Crystal River Listserv



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

ADP CR3, LLC

DUKE ENERGY FLORIDA, LLC

DOCKET NO. 50-302

CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 259
License No. DPR-72

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Crystal River Unit 3 Nuclear Generating Plant (the facility) Facility Operating License No. DPR-72, filed by ADP CR3, LLC (the licensee), dated March 17, 2021, as supplemented by letter dated August 18, 2021, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in Title 10 of the *Code of Federal Regulations* (10 CFR) Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, by Amendment No. 259, Facility License No. DPR-72 is hereby amended to authorize the revision to the Crystal River Unit 3 Nuclear Generating Plant Independent Spent Fuel Storage Installation (ISFSI)-Only Emergency Plan, as set forth in the application dated March 17, 2021, as supplemented by letter dated August 18, 2021, and as evaluated in the NRC staff's safety evaluation issued with this amendment.
3. This license amendment is effective upon issuance and shall be implemented within 60 days of the effective date.

FOR THE NUCLEAR REGULATORY COMMISSION



Signed by Watson, Bruce
on 10/12/21

Bruce A. Watson, CHP, Chief
Reactor Decommissioning Branch
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety and Safeguards

Date of Issuance: October 13, 2021



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY
THE OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS
RELATED TO AMENDMENT NO. 259
TO FACILITY OPERATING LICENSE NO. DPR-72
ADP CR3, LLC
DUKE ENERGY FLORIDA, LLC
CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT AND
THE INDEPENDENT SPENT FUEL STORAGE INSTALLATION
DOCKET NOS. 50-302 AND 72-1035

1.0 INTRODUCTION

The Crystal River Unit 3 Nuclear Plant (CR-3) is a decommissioning power reactor located at Red Level, Florida in Citrus County, about 5 miles south of Levy County. The site is 7.5 miles northwest of Crystal River, Florida, and 90 miles north of St. Petersburg, Florida. CR-3 is situated on the Gulf of Mexico, within the Crystal River Energy Complex. The licensee, ADP CR3, LLC (ADP CR3), is the holder of the CR-3 Operating License No. DPR-72, issued pursuant to the Atomic Energy Act of 1954, as amended, and Part 50, "Domestic Licensing of Production and Utilization Facilities," of Title 10 of the *Code of Federal Regulations* (10 CFR).

By application dated March 17, 2021 (Reference 1), as supplemented by letter dated August 18, 2021 (Reference 2), ADP CR3 submitted a license amendment request for CR-3. The amendment would revise the CR-3 Independent Spent Fuel Storage Installation (ISFSI) Only Emergency Plan (IOEP) and Emergency Action Level Bases Manual pursuant to 10 CFR 50.54(q)(4). The proposed changes include: (1) a revision of the emergency action levels to be consistent with guidance in 10 CFR 72.32(a), (2) a revised emergency response organization (ERO), (3) incorporation of the Emergency Action Level Bases Manual into the IOEP, and (4) removal of items unnecessarily carried over from the CR-3 Permanently Defueled Emergency Plan and other previous emergency plans.

2.0 REGULATORY EVALUATION

This safety evaluation addresses the acceptability of the proposed changes to the CR-3 IOEP. The regulatory requirements on which the NRC staff based its review are provided below.

2.1 Regulatory Requirements

By letter dated March 30, 2015 (Reference 3) ADP CR3 was granted certain exemptions from emergency planning regulations to reflect the reduced risk of the permanently shutdown and defueled condition of the reactor. The proposed amendments apply to the following regulatory requirements that remain applicable to CR3:

- The provisions of 10 CFR 50.47(b)(1), that state: "...each principal response organization has staff to respond and to augment its initial response on a continuous basis."
- The provisions of 10 CFR 50.47(b)(2) that state: "...adequate staffing to provide initial facility accident response in key functional areas is maintained at all times, timely augmentation of response capabilities is available...."
- The provisions of 10 CFR Part 50, Appendix E that state: "Emergency Planning and Preparedness for Production and Utilization Facilities," Section IV.A, as exempted, states, in part: "The organization for coping with radiological emergencies shall be described, including definition of authorities, responsibilities, and duties of individuals assigned to the licensee's emergency organization...."

2.2 Guidance

The associated guidance documents on which the NRC staff based its evaluation and acceptance of the proposed changes to the CR-3 IOEP are as follows:

- Revision 1 to NUREG-0654/FEMA-REP-1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" (Reference 4), which provides a common reference and guidance source for nuclear facility operators to develop radiological emergency response plans.
- Office of Nuclear Security and Incident Response / Division of Preparedness and Response (NSIR/DPR) Interim Staff Guidance (ISG) – 2, "Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants" (Reference 5), which provides guidance for the review of emergency plans for power reactor sites undergoing decommissioning.

3.0 TECHNICAL EVALUATION

3.1 Proposed Changes

In its application dated March 17, 2021, as supplemented by letter dated August 18, 2021, ADP CR3 proposed a change to the CR-3 IOEP to delete the Response Manager position.

In addition, ADP CR3 identified other changes, which are administrative in nature, to include the Emergency Action Level Technical Bases Document into the IOEP as an appendix, as well as implement some additional editorial changes.

These editorial and/or minor grammatical changes included:

- remove references to Duke Energy
- add references to 10 CFR 72.32, "Emergency Plan"
- correct titles for the ISFSI organization
- simplify, correct, or combine descriptions
- clarify/revise drill and drill frequencies consistent with an ISFSI-only emergency plan
- revise the State of Florida Notification Form as agreed upon with the State of Florida Division of Emergency Management
- revise the State of Florida notification protocol to use commercial telephones, thus removing the reference to the State Hot Ring Down phone
- revise page numbers in the Table of Contents and section numbers in the body of the IOEP accordingly

As part of its evaluation, the NRC staff has reviewed the licensee's regulatory and technical analyses in support of the proposed changes to the CR-3 IOEP, as described in the application dated March 17, 2021, as supplemented by letter dated August 18, 2021. A summary of the NRC staff's evaluation is provided below.

3.1.1 Emergency Response Organization Revision - Deletion of the Resource Manager Position

ADP CR3 states that the Resource Manager position, along with a second individual trained to respond to events involving radiological consequences, were included in the original IOEP to provide assistance and support to the Emergency Coordinator (EC). In accordance with the IOEP, the Resource Manager was notified by the EC within two (2) hours of event classification "to augment the EC by assisting in assessing the emergency condition, coordinating required resources, including public information interface." This position was only required to make contact with the EC in order to provide support and was never required to respond to the site or to direct the conduct of emergency response actions.

ADP CR3 states that during the conduct of required drills and exercises under the current site configuration, it was noted that the EC has sufficient time and ability to obtain support without the need for a dedicated Resource Manager to perform these responsibilities. The EC may elect to utilize any member of management, employees, or contract personnel on site at the time of the event to augment the emergency response, as well as to assist and coordinate response. This includes the responsibility for public information interface, which is currently assigned to the ISFSI Manager. The EC will notify the ISFSI Manager following an emergency declaration and the ISFSI Manager will coordinate with Corporate Communications personnel for the dissemination of information to the media.

Additionally, ADP CR3 states that the ISFSI Shift Supervisor/EC is fully trained in the activities necessary to effectively classify and respond to an event at CR-3. The two ISFSI events, which require particular expertise, are related to security and radiological conditions. The on-shift ISFSI Shift Supervisor will be staffed by a Security Shift Supervisor who is fully trained and equipped to address security events and hostile actions. Each ISFSI Shift Supervisor receives EC training as outlined in the IOEP, which includes training in radiological monitoring and ISFSI technical knowledge, including ISFSI design and licensing basis, giving them the ability to perform accurate and timely classifications for the two possible ISFSI events. The ISFSI Shift Supervisors are also trained on onsite protective actions.

ADP CR3 further states that the EC training gives the ISFSI Shift Supervisor/EC the necessary technical skills and abilities to effectively classify and respond to an event at CR-3 as well as the ability to determine radiological status. Training drills and evaluated exercises have demonstrated that an EC, trained and qualified in accordance with the IOEP, has the knowledge, skills, and abilities to determine protective and corrective actions and the time to get any needed expertise, without the support of a Resource Manager.

The NRC staff evaluated the proposed change and determined that deletion of the Resource Manager position is acceptable because personnel will be trained to perform these duties and will always be onsite and available. Based on the assessment above, the NRC staff concludes that the proposed CR-3 IOEP continues to meet the applicable planning standards of 10 CFR 50.47(b) and the applicable requirements of Appendix E to 10 CFR Part 50.

3.1.2 Inclusion of the Emergency Action Level Technical Bases Document into the IOEP and Other Administrative/Editorial Changes

The NRC staff has reviewed the other miscellaneous changes to the CR-3 IOEP. Specifically, the application identified the inclusion of the Emergency Action Level Technical Bases Document into the IOEP as Appendix C, "Emergency Action Level Technical Bases," as well as other administrative and editorial changes. The NRC staff has determined that these changes are administrative or editorial in nature and concludes that these changes do not negatively impact the licensee's ability to continue to meet the applicable planning standards of 10 CFR 50.47(b) and the requirements of Appendix E to 10 CFR Part 50.

3.4 Summary

The NRC staff performed a technical and regulatory review of the proposed changes to the CR-3 IOEP, as supplemented. Based on this review, the NRC staff finds that the proposed changes to the CR-3 IOEP continue to meet the applicable planning standards in 10 CFR 50.47(b) and requirements in Appendix E to 10 CFR Part 50, and provide reasonable assurance that adequate protective measures can and will be taken in the event of a radiological emergency. Therefore, the NRC staff concludes that the proposed changes to the CR-3 IOEP, as described in the application dated March 17, 2021, as supplemented by letter dated August 18, 2021, are acceptable.

4.0 STATE CONSULTATION

In accordance with the Commission's regulations, the State of Florida official was notified of the proposed issuance of the amendment on August 25, 2021. The State official had no comments.

5.0 ENVIRONMENTAL CONSIDERATION

The proposed amendment changes the site emergency plan. The amendment also relates, in part, to changes in staffing and transfer of responsibilities. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding published in the *Federal Register* on May 18, 2021 (86 FR 26950). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10) and 51.22(c)(11). Therefore, pursuant to

10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

6.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) there is reasonable assurance that such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

7.0 REFERENCES

1. ADR CR3, LLC letter to U.S. Nuclear Regulatory Commission, "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," dated March 17, 2021 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML21076A386).
2. ADR CR3, LLC letter to U.S. Nuclear Regulatory Commission, "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," dated March 17, 2021 (ADAMS Accession No. ML21230A191).
3. Letter from U.S. Nuclear Regulatory Commission to Crystal River Nuclear Plant, "Crystal River Unit 3 - Exemptions from Certain Emergency Planning Requirements and Related Safety Evaluation (TAC No. MF2981)," dated March 30, 2015 (ADAMS Accession No. ML15058A906).
4. NUREG-0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," dated November 1980 (ADAMS Accession No. ML040420012).
5. NSIR/DRP-ISG-2, "Emergency Planning Exemption Requests for Decommissioning Nuclear Power Plants," dated May 11, 2015 (ADAMS Accession No. ML14106A057).

Principal Contributor: Mike Norris, NSIR/DPR

Date of Issuance: October 12, 2021

Crystal River Nuclear Plant Unit 3 - Issuance of Amendment No. 259 Approving the ISFSI-Only Emergency Plan, Revision Draft A (EPID No. L-2021-LLA-0047) DATE October 13, 2021

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