UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

October 17, 2017

Mr. Dean Curtland
Director of Site Operations
Duane Arnold Energy Center
3277 DAEC Road
Palo, IA 52324-9785

SUBJECT: DUANE ARNOLD ENERGY CENTER NRC TEMPORARY INSTRUCTION 2515/191, MITIGATION STRATEGIES, SPENT FUEL POOL INSTRUMENTATION AND EMERGENCY PREPAREDNESS INSPECTION REPORT 05000331/2017009

Dear Mr. Curtland:

On September 29, 2017, the U.S. Nuclear Regulatory Commission (NRC) completed a Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans" inspection at your Duane Arnold Energy Center. On September 29, 2017, the NRC inspectors discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

The inspection examined activities conducted under your license as they relate to the implementation of mitigation strategies and spent fuel pool instrumentation orders (EA–12–049 and EA–12–051) and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans, your compliance with the Commission's rules and regulations, and with the conditions of your operating license. Within these areas, the inspection involved examination of selected procedures and records, observation of activities, and interviews with station personnel.

The NRC inspectors did not identify any findings or violations during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at http://www.nrc.gov/reading-rm/adams.html and at the NRC Public Document Room in accordance with 10 CFR 2.390, “Public Inspections, Exemptions, Requests for Withholding.”

Sincerely,

/RA/

Ann Marie Stone, Team Leader
Technical Support Staff
Division of Reactor Projects

Docket Nos. 50–331; 72–032
License No. DPR–49

Enclosure:
Inspection Report 05000331/2017009

cc: Distribution via LISTSERV®

Letter to Dean Curtland from Ann Marie Stone dated October 17, 2017

SUBJECT: DUANE ARNOLD ENERGY CENTER NRC TEMPORARY INSTRUCTION 2515/191, MITIGATION STRATEGIES, SPENT FUEL POOL INSTRUMENTATION AND EMERGENCY PREPAREDNESS INSPECTION REPORT 05000331/2017009

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Richard Skokowski
Allan Barker
Carole Ariano
Linda Linn
DRPIII
DRSIII
ROPreports.Resource@nrc.gov
JLD_Regional.Resource@nrc.gov

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OFFICE	RIII		RIII					
NAME	SSheldon:lg		AStone					
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REGION III

Docket No:	50–331
License No:	DPR–49
Report No:	05000331/2017009
Licensee:	NextEra Energy Duane Arnold, LLC
Facility:	Duane Arnold Energy Center
Location:	Palo, IA
Dates:	September 25 – 29, 2017
Inspectors:	S. Sheldon, Project Engineer R. Baker, Senior Operations Engineer J. Steffes, Resident Inspector L. Rodriguez, Reactor Inspector
Approved by:	A. Stone, Team Leader Technical Support Staff Division of Reactor Projects

Enclosure

SUMMARY

Inspection Report 05000331/2017009; 09/25/2017 – 09/29/2017; Duane Arnold Energy Center; Temporary Instruction 2515/191 Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans.

This inspection was performed by three U.S. Nuclear Regulatory Commission (NRC) regional inspectors and one resident inspector. No findings of significance or violations of NRC requirements were identified during this inspection. The significance of inspection findings is indicated by their color (i.e., greater than Green, or Green, White, Yellow, Red) and determined using Inspection Manual Chapter (IMC) 0609, "Significance Determination Process," dated April 29, 2015. Cross-cutting aspects are determined using IMC 0310, "Aspects Within the Cross-Cutting Areas," dated December 4, 2014. All violations of NRC requirements are dispositioned in accordance with the NRC's Enforcement Policy, dated November 1, 2016. The NRC's program for overseeing the safe operation of commercial nuclear power reactors is described in NUREG–1649, "Reactor Oversight Process," Revision 6.

NRC-Identified and Self-Revealing Findings

No findings were identified.

REPORT DETAILS

4. OTHER ACTIVITIES

4OA5 Other Activities (TI 2515/191)

The objective of Temporary Instruction (TI) 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans," is to verify the licensee has adequately implemented the mitigation strategies as described in the licensee's "Final Integrated Plan in Response to Order EA–2–049" (ADAMS Accession No. ML16347A010), and the NRC's safety evaluation (ADAMS Accession No. ML17129A037) and to verify the licensee installed reliable water-level measurement instrumentation in their spent fuel pool. The purpose of this TI was also to verify the licensee had implemented Emergency Preparedness (EP) enhancements as described in their site-specific submittals and NRC safety assessments, including multi-unit dose assessment capability and enhancements to ensure staffing is sufficient and communications can be maintained during such an event.

The inspection also verifies plans for complying with NRC Orders EA–12–049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events (ADAMS Accession No. ML12054A736) and EA–12–051, Order Modifying Licenses With Regard to Reliable Spent Fuel Pool Instrumentation (ADAMS Accession No. ML12054A679) are in place and are being implemented by the licensee. Additionally, the inspection verified implementation of staffing and communications information provided in response to the March 12, 2012, request for information letter (ADAMS Accession No. ML12053A340) and multiunit dose assessment information provided per COMSECY–13–0010, "Schedule and Plans for Tier 2 Order on Emergency Preparedness for Japan Lessons Learned", dated March 27, 2013, (ADAMS Accession No. ML12339A262).

The inspectors discussed the plans and strategies with plant staff, reviewed documentation, and where appropriate, performed plant walk downs to verify the strategies could be implemented as stated in the licensee's submittals and the NRC staff prepared safety evaluation. For most strategies, this included verification that the strategy was feasible, procedures and/or guidance had been developed, training had been provided to plant staff, and required equipment had been identified and staged. Specific details of the team's inspection activities are described in the following sections.

This inspection closes TI 2515/191 for the Duane Arnold Energy Center.

.1 Mitigation Strategies for Beyond-Design Basis External Events

a. Inspection Scope

The inspectors examined the licensee's established guidelines and implementing procedures for the beyond-design basis mitigation strategies. The inspectors assessed how the licensee coordinated and documented the interface/transition between existing off-normal and emergency operating procedures with the newly developed mitigation strategies. The inspectors selected a number of mitigation strategies and conducted plant walk downs with licensed operators and responsible plant staff to assess the adequacy and completeness of the procedures; familiarity of operators with the

procedure objectives and specific guidance; staging and compatibility of equipment; and the practicality of the operator actions prescribed by the procedures, consistent with the postulated scenarios.

The inspectors verified a preventive maintenance program had been established for the Diverse and Flexible Coping Strategies (FLEX) portable equipment and periodic equipment inventories were in place and being conducted. Additionally, the inspectors examined the introductory and planned periodic/refresher training provided to the Operations staff most likely to be tasked with implementation of the FLEX mitigation strategies. The inspectors also reviewed the introductory and planned periodic training provided to the Emergency Response Organization personnel. Documents reviewed are listed in the attachment.

b. Assessment

Based on samples selected for review, the inspectors verified the licensee satisfactorily implemented appropriate elements of the FLEX strategy as described in the plant specific submittals and the associated safety evaluation and determined the licensee is in compliance with NRC Order EA–12–049. The inspectors verified the licensee satisfactorily:

- developed and issued Severe Accident Management Procedures (SAMP) to implement the FLEX strategies for postulated external events;
- integrated their SAMPs into their existing plant procedures such that entry into and departure from the SAMPs were clear when using existing plant procedures;
- protected FLEX equipment from site-specific hazards;
- developed and implemented adequate testing and maintenance of FLEX equipment to ensure their availability and capability;
- trained their staff to assure personnel proficiency in the mitigation of beyond-design basis events; and
- developed the means to ensure the necessary off-site FLEX equipment would be available from off-site locations.

The inspectors verified non-compliances with current licensing requirements, and other issues identified during the inspection were entered into the licensee's corrective action program (CAP) as appropriate.

c. Findings

No findings were identified.

.2 Spent Fuel Pool Instrumentation

a. Inspection Scope

The inspectors examined the licensee’s newly installed spent fuel pool instrumentation. Specifically, the inspectors verified the sensors were installed as described in the plant specific submittals and the associated safety evaluation and that the cabling for the power supplies and the indications for each channel are physically and electrically separated. Additionally, environmental conditions and accessibility of the instruments were evaluated. Documents reviewed are listed in the attachment.

b. Assessment

Based on samples selected for review, the inspectors determined the licensee satisfactorily installed and established control of the spent fuel pool (SFP) instrumentation as described in the plant specific submittals and the associated safety evaluation and determined the licensee is in compliance with NRC Order EA–12–051. The inspectors verified the licensee satisfactorily:

- installed the SFP instrumentation sensors, cabling and power supplies to provide physical and electrical separation as described in the plant specific submittals and safety evaluation;
- installed the SFP instrumentation display in the location, environmental conditions and accessibility as described in the plant specific submittals;
- trained their staff to assure personnel proficiency with the maintenance, testing, and use of the SFP instrumentation; and
- developed and issued procedures for maintenance, testing and use of the reliable SFP instrumentation.

The inspectors verified non-compliances with current licensing requirements, and other issues identified during the inspection were entered into the licensee's CAP.

c. Findings

No findings were identified.

.3 Staffing and Communication Request for Information

a. Inspection Scope

Through discussions with plant staff, review of documentation and plant walk downs, the inspectors verified the licensee has implemented required changes to staffing, communications equipment and facilities to support a multi-unit extended loss of AC power (ELAP) scenario as described in the licensee's staffing assessment and the NRC safety assessment. The inspectors also verified the licensee has implemented multi-unit dose assessment (including releases from spent fuel pools) capability using the licensee's site-specific dose assessment software and approach as described in the licensee's multi-unit dose assessment submittal. Documents reviewed are listed in the Attachment.

b. Assessment

The inspectors reviewed information provided in the licensee's multi-unit dose submittal and in response to the NRC's March 12, 2012, request for information letter and verified that the licensee satisfactorily implemented enhancements pertaining to Near-Term Task Force Recommendation 9.3 response to a large scale natural emergency event that results in an ELAP to all site units and impedes access to the site. The inspectors verified the following:

- the licensee satisfactorily implemented required staffing changes to support a multi-unit ELAP scenario;
- EP communications equipment and facilities are sufficient for dealing with a multi-unit ELAP scenario; and

- the licensee implemented multi-unit dose assessment capabilities (including releases from spent fuel pools) using the licensee's site-specific dose assessment software and approach.

The inspectors verified non-compliances with current licensing requirements, and other issues identified during the inspection were entered into the licensee's CAP.

c. Findings

No findings were identified.

4OA6 Management Meeting

.1 Exit Meeting Summary

On September 29, 2017, the inspectors presented the inspection results to Mr. Dean Curtland and other members of the licensee's staff. The licensee acknowledged the issues presented. The inspectors confirmed none of the potential report input discussed was considered proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee
D. Curtland, Site Director
M. Strope, Operations Director
P. Hansen, Engineering Director
B. Preston, Design Engineering Manager
D. Church, Program Engineering Manager
M. Fritz, Emergency Preparedness Manager
C. Hill, Training Manager
M. Davis, Licensing Manager
B. Wohlers, FLEX Program Owner
T. Erger, Operations Support
T. Ringgold, Senior Emergency Preparedness Coordinator
Z. Cloe, Senior Design Engineer
T. Weaver, Senior Licensing Engineer

U.S. Nuclear Regulatory Commission
A. Stone, Team Leader, Technical Support Staff, Division of Reactor Projects

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

Opened
None.

Closed
None.

Discussed
None.

LIST OF DOCUMENTS REVIEWED

The following is a partial list of documents reviewed during the inspection. Inclusion on this list does not imply that the NRC inspector reviewed the documents in their entirety, but rather that selected sections or portions of the documents were evaluated as part of the overall inspection effort. Inclusion of a document on this list does not imply NRC acceptance of the document or any part of it, unless this is stated in the body of the inspection report.

Condition Reports Initiated as a Result of the Inspection
- 02226703; 2017 FLEX 1P–299, Evaluate Engine Exhaust Manifold Joints; 9/25/2017
- 02226706; 1P–299, Evaluate Engine Exhaust Manifold Joints; 9/25/2017
- 02226806; 2017 FLEX Enhance AOP 399 Attachment 3; 9/26/2017
- 02226833; 2017 FLEX Determine if Controls Necessary for Tow Vehicle Keys; 9/26/2017
- 02226929; 2017 FLEX Enhance SAMP 721 to Add Ground Location in Flood; 9/26/2017
- 02226968; 2017 FLEX Review PMS on FLEX 480VAC Full Load Off Line Tests; 9/26/2017
- 02227005; 2017 FLEX Enhance SBO AOP to Consider Outside Conditions; 9/26/2017
- 02227010; 2017 FLEX Questions from DC Load Shed Walkdown; 9/26/2017
- 02227134; 2017 FLEX Addition of 120VAC DG Location Map to SAMP 724; 9/27/2017
- 02227142; Punctuation in Step 6 and 7 of SAMP 708 Should be Clarified; 9/27/2017
- 02227159; SAMP 715 – Portable Diesel Fire Pump Operation; 9/27/2017
- 02227193; Enhance SAMP 708 to Specify the Location of Adapter; 9/27/2017
- 02227215; 2017 FLEX Circ Pit Level Assumption in CAL–M13–005; 9/27/2017
- 02227257; 2017 FLEX Storage Facility Specification Revision; 9/27/2017
- 02227359; 2017 FLEX Procedural Enhancement for SAMP 715; 9/28/2017
- 02227365; 2017 FLEX Ensure Equip Hard Cards Rev'd when SAMP Rev'd; 9/28/2017
- 02227368; 2017 FLEX Enhance SAMP 715 for Hotwell Level Monitoring; 9/28/2017
- 02227444; 2017 FLEX Flammable Cabinet in FLEX Buildings; 9/28/2017
- 02227485; 2017 FLEX FLEX–AB–100–1000; 9/28/2017
- 02227513; 2017 FLEX SAMP Enhancement for Hose Freezing; 9/28/2017
- 02227516; 2017 FLEX SAMP Adapter Enhancement; 9/28/2017
- 02227518; 2017 FLEX AOP 902 Flood Enhancements for Refueling SAMPS; 9/28/2017
- 02227571; 2017 FLEX Capture Equip Refuel Strategy During Flood; 9/29/2017

Condition Reports Reviewed
- 02049238; Training on Spent Fuel Pool Instrument
- 02116982; SAMP Box Seal Broken
- 02119526; Install a Battery Disconnect Switch in Each FLEX Tow Vehicle
- 02125415; 1G101B Enclosure Space Heater Found Running Continuously
- 02132742; FME Found in the Elkhart Monitor During STP NS130009
- 02148650; RB5 B5B SAMP Box Seal Broken During NS13E006
- 02154531; FLEX 480VAC Generators Fuel Gages are Sticking
- 02156088; FLEX RPV Connections do not Match FLEX Hoses
- 02156113; FLEX DG Ammeter Mounting Stud Broken
- 02157879; 'A' FLEX Diesel 1G101A Coolant Level Low
- 02157899; FLEX Diesel Generator Heaters Not in Service
- 02158624; FLEX 480V 405KW Generator Has Broken Ground Clip
- 02166815; 1G101A FLEX DG Battery Voltage is Low
- 02166818; 1G101A FLEX DG Lube Oil Pan Heater is Detached from Oil Pan
- 02170355; 1P299 Diesel Fire Pump Engine Coolant Low Temperature Rating
- 02179808; South FLEX Building Unit Heater Noisy
- 02191309; Mechanical Issue with North FLEX Loader/Backhoe FDR–B

- 02203533; One Spanner Wrench Missing from South FLEX Inventory
- 02203555; NS130010 – Caterpillar Portable Diesel Fire Pump Operability
- 02207003; 17TD2TSC CAT 5, Procedures Needing Immediate Attention
- 02208054; North FLEX 480V Generator Coolant Leak
- 02212679; 1G102C/GEN Has Flat Tire, Unable to Put Air In
- 02213600; South FLEX Tow Vehicle Battery Found Dead
- 02214421; South FLEX Vehicle Battery Disconnect Switch
- 02215196; 1G101A/GEN Space Heater Found Running
- 02218429; South FLEX Building Tow Truck Will Not Start
- 02225803; FLEX Staging Area Signage

Calculations
- CAL–C14–001; FLEX Building Tornado Wind Hazard Evaluation; Rev 1
- CAL–C14–002; Geotechnical Calculations for the FLEX Storage Buildings; Rev 1
- CAL–M06–007; Room Heatup Analysis for DAEC During Station Blackout; Rev 1
- CAL–M13–005; FLEX Diesel Pump Suction Hydraulic Analysis; Rev 0
- EC 283904; Determine Available FLEX Water Inventories and Validate Adequacy; Rev 0
- EVAL–14–C02; Terracon Subsurface Exploration and Laboratory Testing – FLEX Storage Building; Rev 0
- RWA 1744135–43; Evaluate Fuel Oil Consumption Rates; 3/13/2015

Drawings
- BECH–C684; Pump House; Rev 19
- BECH–M002; Equipment Location Plan at Elev 757’-6”; Rev 70

Miscellaneous Documents
- 30302076; FPL Generator Load Test; 2/18/2015
- BECH–MRS–M497; Portable Pump Specification for B.5.b; Rev 0
- DAEC FLEX Final Integrated Plan; Rev 0
- DAEC FLEX Validation Report; Rev 1
- DAEC Flood Mitigating Strategies Assessment Report; Rev 0
- Emergency Management Guideline; Rev 11
- Seismic Interaction Walkdown; North and South Emergency Response Buildings; 5/26/2016
- SPEC–E–059; FLEX 480 VAC Portable Generator; Rev 2
- Specification No. D–9300, Facilities for Storage of FLEX Equipment; Rev 0

Modifications
- EC–283472; Fukushima Spent Fuel Pool Level Instrumentation; Rev 6
- EC–283904; Fukushima FLEX Strategy Implementation Umbrella Modification; Rev 0

Procedures
- ACP 1408.40; Temporary Power and Extension Cord Guideline; Rev 2
- AD–AA–100–1006; Procedure and Work Instruction Use and Adherence; Rev 13
- AOP 301.1; Station Blackout; Rev 67
- AOP 301.1; Station Blackout; Rev 69
- AOP 301; Loss of Essential Electrical Power; Rev 73
- AOP 304.1; Loss of 4160V Non-Essential Electrical Power; Rev 56
- AOP 317; Loss of 120 VAC Instrument Control Power; Rev 101
- AOP 399; Loss of Communication; Rev 14
- AOP 901; Earthquake; Rev 31
- AOP 902; Flood; Rev 60

- AOP 903; Severe Weather; Rev 59
- BASES–EOP–1; EOP 1 – RPV Control Guideline; Rev 18
- ED; Emergency Depressurization; Rev 11
- EOP 1; RPV Control; Rev 20
- EOP 2; Primary Containment Control; Rev 18
- EPDM Form EP–001; EP Communication Checks; Rev 5
- FLEX FOTF; FLEX Portable Equipment Aid Fuel Oil Transfueler; Rev 1
- FLEX–AA–100; FLEX Equipment PM Basis Program; Rev 5
- FLEX–AA–100–10000; FLEX SFP/CST Pump (Godwin HL130M); Rev 1
- FLEX–AA–100–10002; FLEX 6KW DG Set (DG6E Baldor/HATZ); Rev 4
- FLEX–AA–100–10003; FLEX Transfueler; Rev 2
- FLEX–AA–100–10005; FLEX 480V Generator (TAD1353GE and TWD1643GE); Rev 2
- FLEX–AA–100–10006; FLEX 480V Diesel (TAD1353GE and TAW1643GE); Rev 1
- FLEX–AB–100; DAEC FLEX Program; Rev 0
- FLEX–AB–100–1000; Guidance for FLEX Equipment When It Is Unavailable; Rev 3
- FLEX–AB–100–1001; FLEX Equipment Use During Non-Emergency Conditions; Rev 1
- FLEX–AB–100–1002; FLEX Site Safer Playbook; Rev 0
- FLEX–AB–100–1003; SAFER Response Plan for Duane Arnold Energy Center; Rev 0
- I.LI–W120–001; FLEX – Fuel Pool Level Instrument Loop Calibration; Rev 1
- NG–270k; Plant Winterization Checklist; Rev 19
- NS13E006; Fire Hose/FLEX Hose Hydrostatic Pressure Test; Rev 16
- NS240501; FLEX 120V Portable Diesel Generator Functional and Performance Test for 1G102A/GEN, 1G102B/GEN, 1G102C/GEN; Rev 7
- NS240506; FLEX 480VAC Diesel Generator 1G101A/1G101B Load Test; Rev 1
- NS240507; FLEX Vehicle Exercise and ERB Inspection – South; Rev 2
- NS240508; FLEX Vehicle Exercise and ERB Inspection – North; Rev 2
- OI 644; Condensate and Feedwater Systems; Rev 177
- OM–AA–101–1000; Shutdown Risk Management; Rev 13
- OM–AA–101–1000 (DAEC); Shutdown Risk Management (DAEC Specific Information); Rev 20
- OP–025; SAMP Equipment Inventory; Rev 15
- OP–036; FLEX/B.5.b Implementation Verification During Outages; Rev 2
- SAMP 703; RCIC Operation Following Loss of Electric Power; Rev 8
- SAMP 704; Powering 125 VDC Battery Chargers from Portable Generator; Rev 8
- SAMP 705; Connection of Temporary Power to Non-Essential 480 VAC Bus Using Offsite Diesel Generator; Rev 6
- SAMP 708; Emergency RPV Makeup with the Portable Diesel Fire Pump; Rev 6
- SAMP 712; Spent Fuel Pool Makeup and Spray; Rev 4
- SAMP 714; Manually Isolating RWCU; Rev 2
- SAMP 715; Portable Diesel Fire Pump Operation; Rev 10
- SAMP 718; Emergency Spent Fuel Pool Makeup Via the RHR System with the Portable Diesel Fire Pump; Rev 3
- SAMP 719; Emergency Refueling of Diesel Powered Equipment; Rev 1
- SAMP 721; FLEX 480 VAC Diesel Generator Operation; Rev 0
- SAMP 722; FLEX Repowering Battery Chargers from FLEX 480 VAC DG; Rev 1
- SAMP 723; Repowering MCC 1B32 from a FLEX 480 VAC Portable Diesel Generator; Rev 1
- SAMP 724; FLEX Damage Assessment and Portable Equipment Deployment; Rev 1
- SAMP 725; FLEX Alternate Power to Instrument AC; Rev 0
- SAMP 726; FLEX Adverse Environmental Conditions Guideline; Rev 0
- SAMP 728; FLEX Replenishment of Water Inventories; Rev 0
- SAMP 729; FLEX Ventilation of the Reactor Building Without AC Power; Rev 1

- SAMP 730; FLEX Guidelines for RCIC Use During a Beyond Design Basis External Event; Rev 0
- SAMP 733; FLEX NSRC Phase 3 Equipment Staging and Operation; Rev 0
- SBO; Station Blackout-Flowchart; Rev 0
- SBO; Station Blackout-Flowchart; Rev 1
- TSC–04; Tech & Eng Supervisor Position Specific Checklist; Rev 14
- TSK084A; Seasonal Readiness Unit Heater Inspection

Training Documents
- LP (Lesson Plan) # 2016C–02L; HPCI and RCIC Logic Failures; Rev 0
- LP # 2016C–04L; FLEX Equipment Out of Service; Rev 0
- LP # 2016C–08L; FLEX Severe Accident Management Procedures; Rev 0
- LP # 2016C–09L; FLEX Hard Pipe Vent Modification; Rev 0
- LP # 2016D–06L; FLEX – RCIC Logic; Rev 0
- LP # 2016D–07L; FLEX Spent Fuel Pool Level Indication System; Rev 0
- LP # 2016D–08L; Station Blackout – ELAP/FLEX; Rev 0
- LP # 2016O–08L; Outage Modifications; Rev 0
- LP #55057, 11; Tractor Loader/Backhoe; Rev 0
- 60001, PDA ERP FLEX 002; ERO FLEX/SAMP GAP Training; Rev 0
- Fire Brigade FLEX/SAMP GAP Training; Rev 0
- Training Completion Records for LP Training Sessions Listed Above.

Work Orders
- EP–001; EP Communication Checks; 5/18/2017
- Model WO 01376687–01; 1P298: Support Vendor Inspections
- WO 40361536 06; EC280490 - FUK-FLEX Check Phase Rotation on Diesel; 9/23/2016
- WO 40452542 01; STP NS240501 Portable Diesel Generator Operational; 12/27/2016
- WO 40464246–01; FDGLT-A: FLEX Diesel Ge nerator Light Tower Annual PM; 8/25/2017
- WO 40486692–01; 1G102A/GEN: 2 Year Maintenance; 8/17/2017
- WO 40487422 01; STP NS130009 John Deere Portable Diesel Fire Pump Operability; 5/5/2017
- WO 40488109 01; STP NS240506 FLEX 480 VAC Generator Load Test; 9/28/2016
- WO 40488164 01; STP NS240504 FLEX Portable Diesel Generator 1G102D, E, F; 10/1/2016
- WO 40488952 01; STP NS240502 1G101A FLEX 480VAC Diesel Gen. Funct. Test; 7/5/2017
- WO 40490654–01; FDFOT A: Quarterly Inspection per FLEX–AA–100–10003; 6/20/2017
- WO 40490679–01; STP NS130009 John Deere B5B Portable Diesel Fire Pump Operability; 7/10/2017
- WO 40495995 01; STP NS130009 John Deere Portable Diesel Fire Pump Operability; 8/12/2017
- WO 40496004 01; STP NS240507 FLEX Vehicle Exercise and ERB Insp South; 8/8/2017
- WO 40497941 01; STP NS130010 Caterpillar Portable Diesel Fire Pump Operability; 5/5/2017
- WO 40512560 01; FLEX Debris Removal Equipment Standby Walkdown; 7/6/2017
- WO 40535495–01; 1G102C/GEN: 2 Year Maintenance; 8/17/2017
- WO 40535496–01; BLDG-NERB: Annual HVAC Equipment PM; 8/15/2017

LIST OF ACRONYMS USED

ADAMS	Agencywide Documents Access and Management System
CAP	Corrective Action Program
CFR	*Code of Federal Regulations*
ELAP	Extended Loss of AC Power
EP	Emergency Preparedness
FLEX	Diverse and Flexible Coping Strategies
IMC	Inspection Manual Chapter
LP	Lesson Plan
NRC	U.S. Nuclear Regulatory Commission
SAMP	Severe Accident Management Procedure
SFP	Spent Fuel Pool
TI	Temporary Instruction
WO	Work Order