



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

February 22, 2022

Mr. John Sauger  
President and Chief Nuclear Officer  
Zion Restoration Project  
ZionSolutions, LLC  
121 West Trade Street, Suite 2700  
Charlotte, NC 28202

SUBJECT: NRC INSPECTION REPORT NO. 05000295/2021001(DNMS);  
05000304/2021001(DNMS) – ZION NUCLEAR POWER STATION

Dear Mr. Sauger:

On December 31, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed onsite inspection activities for January through December 2021, at the permanently shutdown Zion Nuclear Power Station in Zion, Illinois. The purpose of the inspection was to determine whether decommissioning activities were conducted safely and in accordance with NRC requirements. The enclosed report presents the results of this inspection, which were discussed with Mr. Todd Eiler and other members of your staff on January 11, 2022.

During the inspection period, the NRC inspectors reviewed the following aspects of onsite activities: safety reviews, design changes and modifications; self-assessments, audits, and corrective actions; fire protection; decommissioning performance; occupational radiation exposure; radiological surveys; inspection of final surveys at permanently shutdown reactors; radioactive waste treatment, effluent, and environmental monitoring; and waste management and transportation. The inspection consisted of an examination of activities at the site as they relate to safety and compliance with the Commission's rules and regulations. Areas examined during the inspection are identified in the enclosed report. Within these areas, the inspection consisted of a selective examination of procedures and representative records, reviewing work activities onsite and remotely, and interviews with personnel.

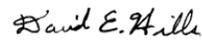
Based on the results of this inspection, the NRC did not identify any violations. However, the inspectors continue to evaluate circumstances surrounding particle contamination identified during an NRC April 2021 onsite radiological survey and being explored further through NRC Requests for Additional Information dated August 19, 2021, (ADAMS Accession No. ML21231A187) and October 14, 2021, (ADAMS Accession No. ML21238A067).

J. Sauger

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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 Title 10 of the Code of Federal Regulations (CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

 Signed by Hills, David  
on 02/22/22

David E. Hills, Chief  
Materials Control, ISFSI, and  
Decommissioning Branch  
Division of Nuclear Materials Safety

Docket No: 50-295; 50-304  
License No: DPR-39; DPR-48

Enclosure: IR Nos. 05000295/2021001(DNMS); 05000304/2021001

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Letter to John Sauger from David Hills dated, February 22, 2022.

SUBJECT: NRC INSPECTION REPORT NO. 05000295/2021001(DNMS);  
05000304/2021001(DNMS) – ZION NUCLEAR POWER STATION

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U.S. NUCLEAR REGULATORY COMMISSION  
REGION III

Docket No: 50-295; 50-304

License No: DPR-39; DPR-48

Report No: 05000295/2021001(DNMS);  
05000304/2021001(DNMS)

Enterprise Identifier: I-2021-001-0148

Licensee: *ZionSolutions*, LLC

Facility: Zion Nuclear Power Station, Units 1 and 2

Location: Zion, Illinois

Dates: January 1, 2021, to December 31, 2021

Inspectors: Rhex Edwards, Senior Health Physicist  
Dr. Peter C. Lee, ChP Health Physicist  
Bill Lin, Health Physicist

Approved by: David E. Hills, Chief  
Materials Control, ISFSI, and  
Decommissioning Branch  
Division of Nuclear Materials Safety

Enclosure

## **EXECUTIVE SUMMARY**

### **Zion Nuclear Power Station, Units 1 and 2 NRC Inspection Report 05000295/2021001(DNMS); 05000304/2021001(DNMS)**

The Zion Nuclear Power Station (ZNPS) is a permanently shut-down and defueled power reactor facility that was maintained in a safe storage condition from 1998 through 2010. Active decommissioning began in 2011. The active decommission activities have completed and the licensee continued performing additional final status surveys, discrete particle surveys, and visual surveillance of the ZNPS. This periodic safety inspection reviewed licensed activities associated with self-assessments, audits, and corrective actions; decommissioning performance; occupational radiation exposure; inspection of remedial and final surveys; radioactive waste treatment, and effluent and environmental monitoring; and solid radioactive waste management and transportation of radioactive materials.

#### **Safety Reviews, Design Changes, and Modifications**

- The licensee performed adequate safety evaluations or screenings, completed design change evaluations, and properly assessed decommissioning impacts of various work activities as required by Title 10 of the Code of Federal Regulations (CFR) 50.59 and its safety review process.

#### **Problem Identification and Resolution**

- Issues were identified by the licensee at appropriate thresholds and entered into the Corrective Action Program (CAP). Issues were screened and prioritized commensurate with safety significance. Licensee evaluations determined the significance of issues and included appropriate remedial corrective actions.

#### **Fire Protection Program**

- An effective decommissioning Fire Protection Program was maintained and implemented that reasonably prevented fires; provided the capability to rapidly detect, control, and extinguish fires that could result in radiological hazards; and ensured the risk of fire-induced hazards to the public, environment, and plant personnel were minimized.

#### **Decommissioning Performance and Status Review**

- The inspectors determined that decommissioning activities were in accordance with the regulations and license requirements. Decommissioning staffing, qualifications, and training were appropriate to the requirements and current decommissioning status.

#### **Occupational Radiation Exposure**

- Adequate protection of worker health and safety from exposure to radiation and radioactive material was provided. Radiation surveys were performed adequately to identify the hazards present.

### **Inspection of Remedial and Final Surveys**

- The inspectors continue to evaluate circumstances surrounding particle contamination identified during an NRC April 2021 onsite radiological survey.

### **Radioactive Waste Treatment, and Effluent and Environmental Monitoring**

- Currently there are no effluent flow paths and environmental monitoring systems onsite. The licensee has completed all active decommission and there are no effluent releases to the environment. The changes are aligned with descriptions in the Offsite Dose Calculation Manual (ODCM) and were applicable to the current radiological status onsite. Changes to the effluent and environmental monitoring program were consistent with regulatory requirements.

### **Solid Radioactive Waste Management and Transportation of Radioactive Materials**

- The licensee effectively processed, handled, stored radioactive material.

## Report Details

### Summary of Plant Activities

During the inspection period, the licensee performed FSS of various ZNPS areas, discrete particle surveys, and visual surveillance of the plant footprint.

#### 1.0 Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors (IP 37801)

##### 1.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Whether the licensee's safety review process and procedures identified potential changes to Technical Specification (TS) resulting from proposed changes, tests, experiments, or modifications;
- Whether the licensee's safety review process committee is appropriately staffed and trained in accordance with requirements;
- Whether the licensee's training program effectively trained and assesses qualified personnel for performing safety evaluations;
- Changes to design basis documentation are updated consistent with design changes;
- Design changes or modifications were effectively evaluated to maintain safety; and
- Maintenance and/or work activities appropriately considered whether the activity resulted in a change or modification and was assessed in accordance with 10 CFR 50.59.

The inspectors verified that when issues were identified, licensee personnel appropriately documented the issue in the CAP.

##### 1.2 Observations and Findings

The licensee did not have modification of any TS. The inspectors also reviewed the licensee's safety review process audits and verified there were no design changes or modifications. The licensee had completed the active decommissioning activities and continued performing final status surveys and discrete particle surveys of the Zion Nuclear Power Station. The inspectors reviewed the licensee's one 10 CFR 50.59 evaluation for 2021 and interviewed licensee personnel regarding the process the licensee implemented to determine whether prior NRC approval is needed for any proposed changes. The 10 CFR 50.59 evaluation considered a change to the Decommissioning Safety Analysis Report (DSAR) and Quality Assurance Program Plan (QAPP) to reflect the status of the ODCM. The current ODCM reflected that all effluent monitoring had been removed onsite since there were no effluent releases occurring and that all active decommissioning activities were completed. The inspectors also reviewed the licensee's training program and determined that it was able to train personnel for performing safety evaluations.

No findings were identified.

### 1.3 Conclusions

The licensee performed adequate safety evaluations or screenings and properly assessed decommissioning impacts of various work activities as required by 10 CFR 50.59 and its safety review process. There were no design change evaluations to inspect.

## 2.0 **Problem Identification and Resolution at Permanently Shutdown Reactors (IP 40801)**

### 2.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Effectiveness at preventing, detecting, and correcting issues;
- Audits and assessments evaluating the CAP and Quality Assurance Program; and
- The licensee's safety culture

### 2.2 Observations and Findings

The inspectors reviewed the licensee's CAP. The licensee was able to successfully identify and screen issues and prioritized them commensurate with the appropriate safety significance. The licensee correctly entered the issues into the CAP with appropriate corrective actions. The inspectors reviewed CAP entries throughout the year and evaluated the corrective actions for each one. The inspectors reviewed several CAP entries for follow-up including CR 2021-0049 and CR 2021-0060. In each of these CRs, the inspectors reviewed the licensee's corrective actions, interviewed the appropriate personnel, and determined the licensee's corrective actions were appropriate. The inspectors continued to evaluate Condition Report (CR) 2021-0087, which documented the licensee's discovery of condensate storage tank footers below 2 inches below grade, in conjunction with the inspectors' ongoing evaluation of discrete particles discussed in Section 6.2 below.

The inspectors also determined that the licensee was performing the appropriate audits and assessment in accordance with the licensee's Quality Assurance Program Plan (QAPP) by interviewing licensee personnel and review of licensee's QAPP, audit and assessment records, and the applicable procedures. The inspectors reviewed the licensee's audit criteria for their 50.75(g) records and determined that the audits were performed.

The inspectors interviewed the current licensee personnel onsite. The inspectors verified that the current safety culture that exists onsite was adequate and licensee personnel are comfortable in bringing safety concerns to the onsite management team.

No findings were identified.

### 2.3 Conclusions

Issues were identified by the licensee at appropriate thresholds and entered the CAP. Issues were screened and prioritized commensurate with safety significance. Licensee evaluations determined the significance of issues and included appropriate remedial corrective actions.

## 3.0 **Fire Protection Program at Permanently Shutdown Reactors (IP 64704)**

### 3.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Fire protection program met TSs, Post Shutdown Decommissioning Analysis Report (PSDAR), and fire hazard analyses requirements;
- Changes to the Fire Protection Program did not reduce the effectiveness of the program;
- Assessments were being performed in
- Fire protection detection and suppression systems were effectively maintained, surveillances were performed, and systems were capable of performing their intended function;
- Administrative controls were in place to minimize the occurrence of a fire; and
- Staffing and training requirements were consistent with the Fire Protection Program and Emergency Plan.

The inspectors verified that when issues were identified, licensee personnel appropriately documented the issue in the CAP.

### 3.2 Observations and Findings

There were no changes made to the Fire Protection Program in 2021. The Fire Protection Program was dependent on the local Zion Emergency Services (local Zion Fire Department). The licensee personnel stated that since decommissioning work was completed onsite, the site would contact the local Zion Emergency Services for any emergency on site. The licensee also stated staff performed exercises with Emergency Services on at least an annual basis.

The inspectors walked down the plant and confirmed that there were no combustible materials stored next to radioactive materials within the decommissioned areas. The inspectors also reviewed the licensee fire hazard analysis and fire plan, and administrative controls were in place to minimize the occurrence of a fire and all items were documented and audits in accordance with regulatory requirements.

No findings were identified.

### 3.3 Conclusions

An effective decommissioning Fire Protection Program was maintained and implemented that reasonably prevented fires; provided the capability to rapidly detect, control, and extinguish fires that could result in radiological hazards; and ensured the risk of fire-induced hazards to the public, environment, and plant personnel were minimized.

## 4.0 **Decommissioning Performance and Status Review (IP 71801)**

### 4.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Whether maintenance was conducted at an appropriate frequency;
- Updates to the DSAR were made consistent with 10 CFR 50.71
- Records important to decommissioning were kept consistent with 10 CFR 50.75(g)
- Commitments and requirements in the TSs, PSDAR, ODCM, or Emergency Plan were effective and being met;
- Appropriate administrative and/or engineering controls were identified and implemented in work plans;
- Organization and staffing were appropriately adjusted for changes in the status of decommissioning; and
- Changes to the decommissioning schedule or costs were made consistent with the requirements in 10 CFR 50.82(a)(7).

The inspectors verified that when issues were identified, licensee personnel appropriately documented the issue in the CAP.

### 4.2 Observations and Findings

The inspectors performed onsite walkdowns of the plant throughout 2021. The licensee had completed all active decommission work and was only performing FSS of the decommissioned site, discrete particle surveys, and surveillance of the plant to ensure that ZNPS property postings and fencings were legible. The licensee was implementing proper administrative controls in documenting and surveying personnel into and out of areas that had been FSS and waiting for final license termination from the NRC. The inspectors also interviewed the licensee and ensured that the licensee had appropriate personnel to support FSS and surveillance activities.

The inspectors also reviewed the licensee's training program and decommissioning records consistent with 10 CFR 50.75(g). The inspectors verified that all personnel onsite were properly trained, and that the licensee had kept the important decommissioning records consistent with 10 CFR 50.75(g). In addition, the licensee had also provided the NRC with the FSS, discrete particle surveys schedule, and any excavation of the footer schedule. All active decommission activities were complete and no other activities were occurring onsite.

No findings were identified.

#### 4.3 Conclusions

The inspectors determined that decommissioning activities were in accordance with the regulations and license requirements. Decommissioning staffing, qualifications, and training were appropriate to the requirements and current decommissioning status.

### 5.0 **Occupational Radiation Exposure at Permanently Shutdown Reactors (IP 83750)**

#### 5.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Changes made to organization, personnel, facilities, instrumentation, equipment, programs that impact occupational radiation protection (RP);
- Training and qualifications of members of the RP organization;
- Radiological hazards and worker protection in work activities;
- Planning identified appropriate dose reduction techniques, defined reasonable dose goals, and RP hold points;
- Radiological controls, postings, and material conditions inside the radiological control area;
- Contamination monitoring including release of radioactive materials from controlled areas;
- Accuracy and functionality of radiation monitoring instruments;
- Area radiation monitors and continuous air monitors are appropriately positioned;
- Temporary ventilation systems are correctly configured;
- The characterization of the radiation type and energies were appropriate to the surveys and work practices; and staffing, posting, radiological controls, and changes met regulatory requirements.

The inspectors verified that when issues were identified, licensee personnel appropriately documented the issue in the CAP.

#### 5.2 Observations and Findings

There were no changes to the organization staffing and instrumentation that would impact RP. The inspectors reviewed the licensee's radiation and contamination surveys, and source inventory. The licensee performed radiation and contamination surveys and source inventory in accordance with approved procedures and radiation survey instruments. The inspectors verified and confirmed that for each type of survey the licensee performed, it used the appropriate survey instrument to perform these surveys and verified that the licensee is updating its source term that was currently onsite due to source decay. The inspectors also observed the licensee perform source checks of radiological survey instrumentation. The licensee performed these source checks in accordance with approved licensee procedures. The inspectors interviewed licensee personnel regarding the frequency of these source checks and the licensee's process and procedure on how everything was documented. The licensee personnel were knowledgeable regarding the process and procedures. Due to the current radiological status of the plant, there was no RP work that required any radiological procedures with RP hold points, dose reduction techniques, radiation and air monitoring, and temporary

ventilation. All decommissioning activities were completed, and remaining surveys were performed outside with the appropriate RP practices to ensure safe handling of any radiological materials.

The inspectors also performed a walkdown of the plant. The inspectors observed that general housekeeping was maintained and that all signs within the plant were appropriately posted and legible. The inspectors also observed that all radioactive material was properly bagged, tagged, and controlled.

No findings were identified.

### 5.3 Conclusions

Adequate protection of worker health and safety from exposure to radiation and radioactive material was provided. Radiation surveys were performed adequately to identify the hazards present.

## 6.0 **Inspection of Remedial and Final Surveys (IP 83801)**

### 6.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Review the LTP, if approved, and the licensee's procedures that govern performance of Remedial Action Support Surveys (RASS) and FSSs, chain of custody, access control to FSS areas, survey data collection and data management, survey quality assurance requirements, and records retention requirements. Review the NRC's Safety Evaluation Report (SER) that approved the LTP and assess whether items for further review were identified in the SER. Determine whether the licensee has adequately addressed these items, as applicable.
- Review changes, as applicable, made to the LTP that did not require prior NRC approval.
- For radiological instruments used in support of RASS or FSS, verify that the instruments are calibrated and appropriate to detect the radionuclides of concern (ROC). Determine whether the selected instruments are appropriate for the ROC actions levels and Derived Concentration Guideline Levels (DCGLs). Evaluate whether the instruments have sufficient Minimum Detectable Concentrations (MDCs) to detect action level concentrations and whether the scan MDCs are sufficient.
- For laboratory instruments used by the licensee to count samples, review the quality control charts for maintaining radiation measurement instrument status and actions taken for potential degrading detector performance. If the licensee uses a vendor laboratory to analyze Radiological Environmental Monitoring Program (REMP) samples, consider if the vendor's quality control program, including inter-laboratory comparison programs, is adequate.

- Select areas, based on survey unit classification and risk significance, for review of the licensee's remediation activities, RASSs, and FSSs.

## 6.2 Observations and Findings

The NRC inspectors walked down the plant and performed various verification surveys within the ZNPS for discrete particles. In particular, the inspectors continue to evaluate circumstances surrounding particle contamination identified during an NRC April 2021 onsite radiological survey and being explored further through NRC Requests for Additional Information dated August 19, 2021, (ADAMS Accession No. ML21231A187) and October 14, 2021, (ADAMS Accession No. ML21238A067). These particles were not listed as radionuclides of concern in the approved LTP.

The licensee did not presently have any laboratory instrument to count samples. Instead, the licensee was using an NIST accredited laboratory to perform all their sample counting.

No findings were identified

## 6.3 Conclusions

The inspectors continue to evaluate circumstances surrounding particle contamination identified during an NRC April 2021 onsite radiological survey. Any associated enforcement actions that may be identified during the inspectors' evaluation would be addressed in a future inspection report.

## 7.0 **Radioactive Waste Treatment, and Effluent and Environmental Monitoring (IP 84750)**

### 7.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Changes made to the ODCM or liquid, gaseous, and solid radwaste system design and operation were within the licensing basis and regulations;
- Effluent monitoring ventilation and discharge system configurations, flow paths, and operations were consistent with the licensing basis and procedures;
- Effluent monitors were calibrated;
- Radioactive liquid and gaseous waste discharge permits projected doses to members of the public that were based on representative samples in the discharge pathway and were within 10 CFR Part 50, Appendix I, and TS limits.
- The annual effluent release report was submitted as required, and any anomalous results, unexpected trends, or abnormal releases were identified and entered into the CAP;
- Environmental monitoring equipment was properly located, calibrated and maintained, and environmental samples were adequately collected;
- Whether the Groundwater Protection Initiative program was implemented as intended;

- The licensee's annual radiological environmental monitoring report was submitted as required, and any anomalous results, unexpected trends, or abnormal environmental impacts were identified and entered into the CAP;
- Whether the licensee's vendor laboratory analyzed environmental samples under an approved quality control program and the inter-laboratory comparison program was adequate; and
- Changes made to the environmental program.

The inspectors verified that when issues were identified, licensee personnel appropriately documented the issue in the CAP.

## 7.2 Observations and Findings

The inspectors reviewed the licensee's latest submittal of the ODCM and all applicable reports and all reports were documented in accordance with regulatory requirements. The licensee effluent and environmental and groundwater monitoring no longer existed. The site had completed active decommissioning and no longer had any radioactive liquid and gaseous waste discharges. The licensee performed the necessary 50.59 review to ensure that the ODCM reflected the current radiological status onsite. The inspectors reviewed the licensee's 50.59 evaluation and determined that it the licensee followed the appropriate process and the change in the ODCM did not need prior NRC approval.

No findings were identified.

## 7.3 Conclusions

The licensee submitted the ODCM reports according to NRC regulatory requirements. The licensee had changed the status of the site ODCM to reflect that no radiological discharges and monitoring was taking place and all active decommission activities were completed. Changes to the effluent and environmental monitoring program were consistent with regulatory requirements.

## 8.0 **Solid Radioactive Waste Management and Transportation of Radioactive Materials (IP 86750)**

### 8.1 Inspection Scope

The inspectors performed walkdowns, reviewed documents, and interviewed plant personnel to assess the licensee's performance in the following areas:

- Radioactive waste storage areas are appropriately controlled, labeled, posted and secured against unauthorized removal;
- Containers of radioactive material are inventoried, and their material condition is monitored;
- Sealed sources are accounted for and are appropriately leak tested;
- Waste processing systems were configured and operated consistent with the DSAR, ODCM, and Process Control Program;
- Temporary waste processing systems were adequately implemented;

- Shippers of radioactive material were adequately trained and met TS, 10 CFR 71.5 and Department of Transportation (DOT) 49 CFR Part 172, Subpart H, requirements;
- Changes in organization, personnel, facilities, equipment, programs, and procedures affecting waste management and transportation of radioactive materials;
- Shipments of radioactive material were appropriately surveyed as well as marked, labeled, and placarded consistent with the shipping documentation; and
- Shipments were appropriately characterized, classified, and prepared in accordance with procedures.

The inspectors verified that when issues were identified, licensee personnel appropriately documented the issue in the CAP.

## 8.2 Observations and Findings

During a walkdown of the facility, the inspectors verified radioactive waste was appropriately controlled, labeled, posted, and secured against unauthorized removal. Since all the active decommissioning activities were completed, there was no waste and temporary waste processing system. The inspectors also reviewed the licensee's sealed source inventories and the appropriate leak tests. The licensee performed the inventory and leak test in accordance with the approved procedures. The licensee had not performed any radioactive waste shipment. The NRC inspectors did review the licensee's training for shippers. The training for licensee personnel was current with their DOT training.

No findings were identified.

## 8.3 Conclusions

The licensee effectively handled and stored radioactive materials.

## 9.0 **Exit Meeting**

The inspectors presented the results of the inspection to Mr. Todd Eiler and other members of the ZNPS staff at an exit meeting on January 11, 2022. The licensee acknowledged the results presented and did not identify any of the information discussed as proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

## SUPPLEMENTAL INFORMATION

### PARTIAL LIST OF PERSONS CONTACTED

D. Villicana,	Radiation Protection Manager
S. Roberts,	Vice President Radiological Program
T. Eiler	Director D&D Engineering/Project
G. Wood	Lead Radiological Engineering

### INSPECTION PROCEDURES (IPs) USED

IP 37801	Safety Reviews, Design Changes, and Modifications at Permanently Shutdown Reactors
IP 40801	Self-Assessment, Auditing, and Corrective Action at Permanently Shutdown Reactors
IP 64704	Fire Protection Program at Permanently Shutdown Reactors
IP 71801	Decommissioning Performance and Status Reviews at Permanently Shutdown Plants
IP 83750	Occupational Radiation Exposure
IP 83801	Radioactive Waste Treatment, and Effluent and Environmental Monitoring
IP 84750	Radioactive Waste Treatment, and Effluent and Environmental Monitoring
IP 86750	Solid Radioactive Waste Management and Transportation of Radioactive Materials

### ITEMS OPENED, CLOSED, AND DISCUSSED

<u>Opened</u>	<u>Type</u>	<u>Summary</u>
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None

<u>Closed</u>	<u>Type</u>	<u>Summary</u>
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None

## PARTIAL 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 inspectors reviewed the documents in their entirety, but rather that selected sections of 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.

- IEMA Survey Requests form for 2021
- Zion Solution TLD issuance and training of Onsite Personnel for 2021
- Zion Solution Surveys 2021-0054 through 2021-0086
- Zion Solution visual walkdown for 9/01/2021 and 9/14/2021
- 10 CFR 50.59 evaluation 2021-001; DSAR Change; dated 03/01/2021
- 50.59 Review Cover Sheet Form; Revision 5
- Zion Instrument Calibrations for 2021.
- Zion technical and safety qualification training for personnel onsite
- Zion Offsite Dose Calculation Manual; Rev 12; January 30, 2020
- ES-Zion-CR-2019-0152; 10 CFR 50.75(g) File Audits
- LS-JA-08; DSAR / LTP CHANGE TECHNICAL REVIEW FORM
- Zion ODCM Change Technical Review Letter
- Zion QA Memo 2021-02
- Quality Assurance Project Plan; ZS QA-10; Revision 11
- Photo of Radioactive Material Storage Areas
- ES-Zion-CR-2021-0093; Oil Leak from Front Loader; dated 11/21/2021
- Zion Nuclear Power Station Unit 1 and Unit 2, Pre-Notice of Disbursement from Decommission Trust; 11/30/2020
- ES-Zion-CR-2021-0053 and 2021-0087; Unexpected Obstruction at 2 inches
- ES-ZION-CR-2021-0003; Breaches of Snow Fence in SU10212B and Potential Fence Line Barrier Degradation
- ES-ZION-CR-2021-0011; Implementation of procedure without prerequisite training
- ZION001-CALC-009; Zion ISFSI Fire and Explosion Hazards Analysis; Rev 3
- Zion ES email regarding Fire Hazards Analysis; 10/21/21
- ES-ZION-CR-2021-0055; Trespassers along RRA Fencline
- ES-ZION-CR-2021-0056; Buoy a Intake Dayboard Light OOS
- ES-ZION-CR-2021-0049; FSS finds a small stone-like piece of concrete reading 28K CPM in SU12203B
- ES-ZION-CR-2021-0052; DRP found in SU12203A
- ES-ZION-CR-2021-0058; DRP found in SU 12203C
- ES-ZION-CR-2021-0057; Purchase of QL-II calibration services out of process
- ES-ZION-CR-2021-0060; DRP found in SU 12113
- ES-ZION-CR-2021-0015; Missed IEMA Survey Request Date

## LIST OF ACRONYMS USED

ADAMS	Agencywide Document Access and Management System
ALARA	As Low As Is Reasonably Achievable
CAP	Corrective Action Program
CR	Condition Report
CFR	Code of Federal Regulations
DCGL	Derived Concentration Guideline Levels
DNMS	Division of Nuclear Materials Safety
DOT	U.S. Department of Transportation
DSAR	Decommissioning Safety Analysis Report
FSS	Final Status Survey
IP	Inspection Procedure
IR	Inspection Report
LTP	License Termination Plan
MDCs	Minimum Detectable Concentrations
NRC	U.S. Nuclear Regulatory Commission
ODCM	Offsite Dose Calculation Manual
QAPP	Quality Assurance Program Plan
PSDAR	Post Shutdown Analysis Report
RASS	Remedial Action Support Surveys
ROC	Radionuclides of Concerns
RP	Radiation Protection
RWP	Radiation Work Permit
SER	Safety Evaluation Report
TS	Technical Specification
ZNPS	Zion Nuclear Power Station