

UNITED STATES NUCLEAR REGULATORY COMMISSION

Docket No. 50-328

March 11, 1988

Mr. S. A. White Manager of Nuclear Power Tennessee Valley Authority 6N 38A Lookout Place 1101 Market Street Chattanooga, Tennessee 37402-2801

Dear Mr. White:

SUBJECT: PRELIMINARY SAFETY EVALUATIONS ON THE TENNESSEE VALLEY AUTHORITY EMPLOYEE CONCERN ELEMENT REPORTS

e: Sequoyah Nuclear Plant, Unit 2

This letter forwards our preliminary Safety Evaluations (SEs) on the Tennessee Valley Authority's (TVA) element reports submitted as part of the Employee Concern Special Program (ECSP). These SEs will be published in the near future as NUREG-1232, Volume 2, Part 2. Our SE on the programmatic aspects of the ECSP was transmitted to you in a letter dated October 6, 1987. The staff will address the element reports for Sequoyah, Unit 1 in a future licensing action.

TVA has divided all the employee concerns in the ECSP into the nine functional categories listed in Table 1 and has determined that about 1100 of the more than 5000 employee concerns in the ECSP have a direct or generic relationship to Sequoyah with about 500 of these concerns to be potentially safety related or safety significant. The staff's preliminary SEs contained in Enclosure 2, and listed in Table 2, cover the Sequoyah employee concern issues which the staff has considered restart items required to be resolved before the restart of Sequoyah, Unit 2. These SEs are for the first six categories listed in Table 1. The preliminary SEs in the Quality Assurance and Welding categories contain the staff's evaluation of all employee concerns related to Sequoyah, Unit 2 (i.e., both restart and non-restart related concerns) due to the methods utilized by the staff to review these two categories.

TVA's evaluations of the employee concerns in categories 7 and 8, Industrial Safety and Management and Personnel, respectively, concluded that there were no safety-related concerns in these categories. The staff has reviewed categories 7 and 8 separately and found TVA's response acceptable. The staff's SEs for these two categories were forwarded in letters dated August 24, 1987 (Industrial Safety) and December 14, 1987 (Management and Personnel). Employee concerns in category 9, Intimidation, Harassment and Wrongdoing were removed from the ECSP and assigned to the TVA Office of the Inspector General (OIG) for evaluation. The staff's evaluation of OIG's resolution of these employee concerns is contained in a letter dated October 8, 1987.

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Mr. S.'A. White

Based on the enclosed SEs, the staff concludes that TVA has sufficiently resolved the restart employee concerns in the ECSP to support the restart of Sequoyah, Unit 2. There are a number of confirmatory items contained in the preliminary SEs that are summarized in Table 3. The staff considers these to be non-restart issues and expects that they will be resolved shortly after the restart of Sequoyah, Unit 2.

Sincerely,

Original Signed by Gary G. Zech, Assistant Director for Projects TVA Projects Division Office of Special Projects

Enclosures:
1. Tables 1, 2 and 3
2. Preliminary Safety Evaluations on
 Employee Concern Element Reports

cc w/enclosures: See next page

Distribution Docket File NRC PDR

Local PDR

cc w/enclosure 1 only Projects Reading S. Ebneter J. Axelrad S. Richardson G. Zech B. D. Liaw K. Barr C. Jamerson M. Fields OGC J. Rutberg F. Miraglia E. Jordan J. Partlow ACRS (10) TVA-Rockville SON Reading File

OSP:DTVA/KA OSP:DTVA/PM CJamerson MFields 3/9/88 3/9/88

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Mr. S. A. White Tennessee Valley Authority

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Dr. Henry Myers, Science Advisor Committee on Interior and Insular Affairs U.S. House of Representatives Washington, D.C. 20515

ENCLOSURE 1

| Table 1 | Employee Concern Functional Categories |
|---------|-------------------------------------------------------|
| Table 2 | TVA Employee Element Reports Evaluated in Enclosure 2 |
| Table 3 | Employee Concern SE Confirmatory (Non-Restart) Issues |

TABLE 1

EMPLOYEE CONCERN FUNCTIONAL CATEGORIES

- <u>Construction</u> Concerns related to the adequacy of: construction practices; the quality of as-constructed facilities (excluding welding and as-designed features); instorage and installed maintenance prior to turnover to Operations; measuring, test, and handling equipment used during construction; and construction testing activities.
- Engineering Concerns related to the adequacy of the design process and the as-designed plant features. The design process is the technical and management process which commences with the identification of design inputs and leads to and includes the issuance of the design output documents.
- Material Control Concerns related to the adequacy of materials including their procurement, receipt, handling, storage, and to the controlling procedures.
- Operations Concerns related to operational activities including: operator qualifications, maintenance, security, health physics and ALARA implementation, and preoperational and surveillance testing.
- 5. <u>Quality Assurance/Quality Control</u> Concerns related to the adequacy of QA/QC programs and procedures [e.g., document control, records, deficiency reporting and corrective action, inspection (except for NDE and weld inspection), auditing] and the training, qualification, and certification of QA/QC personnel.
- Welding Concerns related to any aspect of welding including welder or weld procedure qualification, weld inspection/nondestructive examination (NDE), heat treatment, weld quality, filler material quality and weld documentation. Welding QA/QC programmatic concerns shall be addressed in the QA/QC category.
- <u>Industrial Safety</u> Concerns related to the working environment and controls which protect the health and safety of employment in the workplace (excluding health physics and ALARA).
- Management and Personnel Concerns related to the adequacy of policies, management attitude and effectiveness, organization structures, personnel management, and personnel training and qualifications, except those covered by the QA/QC category.
- 9. Intimidation, Harassment and Wrongdoing Concerns related to personnel conduct which interferes with an employee's ability to fulfill his/her assigned responsibility, actions taken against employees for fulfilling their assigned responsibility, and illegal activities or violations of TVA policies and regulations.

TABLE 2

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1

TVA EMPLOYEE ELEMENT REPORTS EVALUATED IN ENCLOSURE 2

| CATEGORY | ELEMENT REPORT NUMBER | ISSUE |
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| EN | 21304 | ELEC. PROC. DO NOT IDENTIFY IEEE PROC. |

TABLE 2 (CONTINUED)

| CATEGORY | ELEMENT REPORT NUMBER | ISSUE |
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| | 21501 21502 21506 21509 21510 21801 21804 21807 22001 22003 22011 22102 22106 22110 22202 22205 22205 22205 22205 22206 22301 22302 22303 22405 22500 22405 22500 22901 22902 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 22905 23101 23005 23104 23105 23106 23203 23206 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23502 23508 23508 23502 23508 23508 23508 23502 23508 23508 23502 23508 23508 23508 23502 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23508 23 | SEISMIC CRITERIA CUT REBAR CONTROL HANGER LOADS ON STRUCTURES STRUCTURAL STEEL CONNECTION DESIGN FEEDWATER HEATER MONORAIL DESIGN THERMAL ANALYSIS OF PIPING <120 F PIPE STRESS CALCULATIONS PIPE STRESS CALCULATIONS PIPE STRESS CALCULATIONS PIPE STRESS CALCULATIONS SEISMIC DESIGN OF SUPPORTS TEMP. VAR. EFFECTS ON PIPE/HANGER CALC. ZERO PERIOD ACCELERATION NOT ANALYZED OBSERVED BENDING OF PIPE CLAMP EARS SUPPORT OF UPPER HEAD INJECTION SYS. BOX ANCHORS WITH EXCESSIVE WELDING DRALINGS DO NOT SHOW WELD SIZE BOL' 3 REFLACED BY WELDS AISC MINIMUM WELD CRIT. NOT FOLLOWED INSTRUMENT LINE SUPPORT CONNECTIONS INSTRUMENT MOUNTING BRACKETS LOCAL INSTRUMENT SEISMIC QUAL. SUPPORT OF CABLES IN SPREADING ROOM BATTERY SUPPORT DESIGN DESIGN OF LIGHTING FIXTURE SUPPORTS UNISTRUTS USED IMPROPERLY ORIFICE PLATES SIZED IMPROPERLY CONTAMINATION RESULTING FROM OPEN DRAINS CONTROL AIR SYSTEM SADEQUACY CHILED WATER SYSTEM LEVEL SWITCHES RADIATION MONITORING INADEQUATE FIRE DAMPING LATCHING TEST FAILED AIRBORNE RADIOACTIVITY IN COWE BLDG FIRE PROTECTION PIPING ISSUES LACK OF FIRE DAMPERS IN D/G BLD BATTERY ROOM VENTILATION SYSTEM DESIGN FIRE PROTECTION QA DOCUMENTS IMPROPER PIPING INSULATION MATERIAL RUBBER GASKET DETERIORATION CRITERIA FOR MIN PIPE WALL THICKNESS EXFOSED 480V SHUTDOWN BOARDS PLASTIC CONDUIT USED INSIDE CONTAINMENT CONTAILS, SWITCH MALFUNCTIONS THERMAL OVERLOAD PROTECTION BREAKERS UNACCEPTABLY SET BYPASS OF OVERTORQUE LIMIT SWITCHES CONDUIT OVERFILL % CABLE DAMAGE CONDUIT OVERFILL % CABLE DAMAGE CONDUIT OVERFILL |
| EN | 23900 | CABLE ROUTING PROBLEMS |

| CATEGORY | ELEMENT REPORT NUMBER | ISSUE |
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| ZZZZZZZQQQQQQAAAAAAAAAAAAAAAAAAAAAAAAA | 24000 24101 24102 24103 24104 24105 24200 24300 40206 40301 40302 40307 40703 40705 30101 30102 30107 30107 30107 30115 30201 30202 30206 30302 30206 30305 30206 30305 30401 30402 30403 30401 30704 30705 30706 30705 | CABLE DERATING AND AMPACITY INADEQUATE CABLE SPLICING CRIMPING CONDUCTORS LOWERS CURRENT CAPACITY NO MEGGER TEST ON LOW VOLTAGE CABLES AMPHENOL CONNECTORS ON D/G WIRE CORROSION IN PENETRATION INADEQUATE ELECTRICAL SEPARATION INADEQUATE ELECTRICAL SEPARATION INADEQUATE D/G MARGIN MATERIAL FROCUREMENT POLICY VALVE SUBSTITUTIONS CRACKED PRESSURIZER VALVE SCRAP MATERIAL USED IN PLANT HEAT CODE AS RELATED TO MATERIAL CONTROL QUALITY RECEIVING UNIT KEROTEST VALVE LEAKAGE/CORROSION D/G RELIABILITY PROBLEMS CONTAINMENT SUMPS MAY BE CLOGGED BY PAINT EQUIPMENT IN FIELD IDENTIFIABLE RAYCHEM HEAT SHRINKABLE TUBING D/G LOW VOLTAGE PROBLEMS TRANSFER CANAL ELECTRICAL EQUIPMENT CALIBRATION OF LEVEL TRANSMITTERS TARGET ROCK VALVES AND RMS ACCURACY RELIABILITY AND MAINTENANCE OF RMS PROCEDURE PROBLEMS WITH ELECTRICAL EQUIPMENT ELECTRICAL PENETRATION BREACHED IMPROPERLY ELECTRICAL PENETRATION BREACHED IMPROPERLY ELECTRICAL PENETRATION BREACHED IMPROPERLY ELECTRICAL MANHOLE PROBLEMS FIRE DOOR LEFT OPEN PLANT OPERATIONS REVIEW COMMITTEE WORKPLAN PROCESSING PROCEDURES SURVEILLANCE FROGRAMYINSTRUCTIONS TEST PROCEDURE/PROBRAMS RADIOLOGICAL EMERGENCY PLAN |
| OP OP OP OP | 30708 30711 30713 30802 30803 | TRAINING PROGRAM FOR EMPLOYEES MGMT NON-RESPONSIVE & CHEMISTRY ISSUES CONFIGURATION CONTROL PREVENTIVE MAINTENANCE IN VENDOR MANUALS CORRECTIVE MAINTENANCE |
| | 30804 30806 30807 30901 30905 31001 31002 31101 | MAINTENANCE PROGRAMS/PROCEDURES NOT FOLLOWED SUBJOURNEYMAN DOING JOURNEYMAN TASKS CLAM CONTROL PROGRAM REPLACEMENT OF TEFLON TAPE SHIFT TECHNICAL ADVISOR TRAINING OPERATION PROGRAM/PROCEDURES INADEQ OPERATOR QUALIFICATIONS HEALTH PHYSICS STAFF TRAINING |

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TABLE 2 (CONTINUED)

| CATEGORY | ELEMENT REPORT NUMBER | ISSUE |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 80000 80101 80102 80104 80201 80202 80203 80203 80205 80303 80401 80402 80404 80501 80503 80504 | GENERAL MANAGEMENT AND FOLICY QA PROGRAM ADEQUACY QA INDEPENDENCE AND AUTHORITY QA MANAGEMENT PERFORMANCE. INSPECTION CRITERIA INSPECTION PROCEDURES INADEQUATE INSPECTIONS INSPECTION PROGRAM SCOPE QA PERSONNEL-PERSONNEL TRAINING NONCONFORMANCE REPORTING PREVENTED REPORTING QA DEFECTS PROGRAM IMPLEMENTATION NO ACCEPTANCE CRITERIA FOR INST MOUNTINGS DOCUMENT DISTRIBUTION CONTROL QA RECORDS |

THESE EMPLOYEE CONCERNS WERE NOT EXPLICITLY ADDRESSED BY TVA IN THEIR ELEMENT REPORTS. THE STAFF WAS ABLE TO FIND THE NECESSARY INFORMATION IN VARIOUS TVA REPORTS.

| CATEGORY | EMPLOYEE | ISSUE |
|----------|-------------------|-------|
| | CONCERN NUMBER | |
| | | |

| OP | XX-85-093-004 | GASSING OF CURRENT TRANSFORMERS |
|----|----------------|---------------------------------|
| OP | SQP-85-004-007 | FOLAR CRANE |
| CO | PH-85-003-003 | WIRE TERMINATIONS |

| CATEGORY | ELEMENT REPORT NUMBER | ISSUE |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 333333333333333333333333333333333333 | I - 85 - 135 - SQN I - 85 - 344 - NPS I - 85 - 540 - SQN I - 85 - 636 - SQN I - 85 - 636 - SQN I - 85 - 635 - SQN I - 85 - 735 - SQN I - 85 - 738 - SQN I - 85 - 756 - SQN I - 85 - 756 - SQN I - 85 - 776 - SQN WP - 01 - SQN WP - 01 - SQN WP - 03 - SQN WP - 03 - SQN WP - 04 - SQN WP - 05 - SQN WP - 05 - SQN WP - 07 - SQN WP - 07 - SQN WP - 10 - SQN WP - 10 - SQN WP - 11 - SQN WP - 13 - SQN WP - 14 - SQN WP - 15 - SQN WP - 16 - SQN WP - 19 - SQN WP - 19 - SQN WP - 21 - SQN WP - 23 - SQN | DOC. OF REQ. DJT FCR NDE PERSONNEL BOX HANGER WELD DESIGN DEFICIENCY DRAVO ASME CLASS SPOOL PIECE SQN WELD INSP. NOT AS STRICT AS WBN NDE INSPECTORS CANNOT WRITE NOTICE ACCEPTANCE OF PREV. REJECTED NDE ITEMS PERFORMANCE OF REMOTE VISUAL INSPEC. IMPROPER WELD ROD USED IN D/G BUILD SOCKET WELDS NOT INSPECTED WELDER INCAPABLE OF MAKING PROPER WELDS ASME WELDING MC, TRACEABILITY, ETC. INSPECTION OF WELDS THROUGH PAINT WELDER PERFORMANCE QUAL. CONTINUITY AVAILABILITY OF WELD INSPECTION TOOLS DUCT INSTALLATION AND DOCUMENTATION WELDING INSPECTORS NOT QUALIFIED WELDER TRAINING PROGRAM INADEQUATE PAINTING REQ. RELATED TO WELDS WELD INSPECTION CRIT. USED AT SON SON IMPLEMENTATION OF WELD PROGRAM SURFACE GRINDING OF WELDS WELDING ELECTRODE QUALITY SUITABILITY OF WELDING EQUIPMENT TWO ADMINISTRATIVE POLICY CONCERNS DESIGN CONSIDERATIONS ON BOX ANCHORS PERFORMANCE OF PREWELD INSPECTIONS VENDOR WELD QUALITY WEN CONCERNS W/NO GENERIC APPLIC. TO SQN UNDERSIZED SOCKET WELDS ON THE SI SYSTEM WELD MATERIAL SUBSTITUTION AND QUALITY INADEQUATE WELD PROCEDURE CONTROL OF UNUSED WELD MATERIAL |
| WE | WP-24-SQN | IMPROPER WELDING CERTIFICATION |
| WE | WP-25-SQN XX-85-013-001 | IMPROPER WELD REPAIR Weld Filler Material |
| WE | XX-85-088-003 | ALTERED WELDERS CERTIFICATION |
| WE | XX-85-100-001 | |
| | | 그는 것 같아요. 이렇게 많아요. 그는 것 같아요. 이렇게 가지? 이렇게 가지? 아이들 것 같아요. 그는 그 그는 요. 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 |
| WE | XX-85-101-006 | WELDER CERFIFICATION NOT PROPER |

TABLE 3

EMPLOYEE CONCERN SE CONFIRMATORY (NON-RESTART) ISSUES

 For the following element numbers, the staff will confirm as a post-restart activity, that the restart corrective actions agreed upon by TVA have been completed properly.

C0 11103 C0 11203 C0 17105 C0 17303 C0 17304 C0 19203 EN 21303 EN 22303 EN 22303 EN 22600 EN 23511 EN 24101 EN 24200 WE I-85-373-NPS

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II. For the following element numbers, the staff's review of the Sequoyah Nuclear Performance Plan (to be published as NUREG-1232, Volume 2, Part 1) will resolve the remaining non-restart items. Section references are provided.

CO 11301, Section 2.3.2 CO 11305, Section 2.3.2 CO 17301, Section 3.4.1 EN 21301, Section 2.3.3 EN 21801, Section 2.4 EN 21804, Section 2.4 EN 24300, Section 2.3.3

- III. For the following element numbers, the staff will resolve the remaining non-restart issues as part of the employee concern program review.
 - EN 20601 Contingent on the acceptability of the Independent Design Inspection effort.
 EN 21801 - Contingent on the acceptability of the Independent Design Inspection effort.
 EN 23101 - Adequacy of the welding of sprinkler system piping.
 EN 23104 - Discrepancies between TVA general design criteria and actual design of the number 5 D/G fire dampers.

EN23702 - Fuse size selection for fifth D/G.

- EN 23900 Contingent on the acceptability of the Independent Design Inspection effort.
- OP 30803 Welding practices on non-safety related equipment.
- OP 30901 Replacement program for teflon tape.
- WE WP-24-SQN TVA should establish that all welders transferring from other TVA facilities to Sequoyah did meet code requirements for welding performance qualifications.

ENCLOSURE 2

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PRELIMINARY

SAFETY EVALUATIONS

ON THE

TENNESSEE VALLEY AUTHORITY

EMPLOYEE CONCERN ELEMENT REPORTS

FOR THE

SEQUOYAH UNIT 2 RESTART EFFORT

SEQUOYAH NUCLEAR POWER PLANTS, UNITS 1 AND 2

SAFETY EVALUATION REPORT FOR EMPLOYEE CONCERNS

I. Subject

| Category: | Construction |
|--------------------|--------------------------------------------------------|
| Subcategory: | Deterioration of Permanent Facilities (10500) |
| Element: | Electrical Control Cabinets as Related to Construction |
| Employee Concerns: | OW-85-007-010 |

The basis for Element Report CO10505-SQN, Rev. 2, dated October 9, 1986, is Sequoyah Employee Concern OW-85-007-010 which states:

"Electrical control cabinets have been contaminated by construction dirt and metal grindings. This contamination entered the panels through the cooling vents on the top of the panels. This is a plant wide problem, because of the heavy build-ups of dust and metal particles that have been allowed to accumulate on top of equipment. This could cause the contactor or other components to deteriorate and blow out or become inoperative. A specific location given is Auxiliary Building, 757 ft. elevation, unit unknown."

II. Summary of Issue

The problem as defined by TVA is that the electrical control cabinets were contaminated by excessive dust and metal grindings, were not being properly protected nor cleaned, and the dust would adversely affect plant operation by causing contactors and other electrical components to blow out or become inoperative.

III. Evaluation

TVA conducted visual inspections of installed electrical control cabinets in the auxiliary, turbine and control buildings. Discussions were held with electrical maintenance personnel to determine if they were aware of any dust/metal grindings on or inside electrical control cabinets. The discussions with electrical personnel re ealed that they do not feel dust or metal grindings on or inside the control cabinets to be a problem. Some dust was observed on the outside of some of the cabinets. No dust was observed on the inside of cabinets and metal grindings were not observed anywhere. TVA reviewed Standard Practice SQA66, Revision 9, and concluded that paragraphs 4.0.6, 4.0.7, and 4.2, Sections E and F adequately addressed the accumulation of dust, foreign materials, and moisture on the inside and outside of electrical boards, panels, and cabinets.

IV. Conclusion

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The results of TVA's investigation of the concern for dust/metal grindings in electrical contpol cabinets indicates that it is not a problem at Sequoyah. The NRC staff agrees with TVA's conclusion and resolution of the concern is described in Element Report CO10505-SQN.