



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW, SUITE 23T85
ATLANTA, GEORGIA 30303-8931

July 28, 2005

Tennessee Valley Authority
ATTN: Mr. K. W. Singer
Chief Nuclear Officer and
Executive Vice President
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: SEQUOYAH NUCLEAR POWER PLANT - NOTIFICATION OF TRIENNIAL FIRE PROTECTION BASELINE INSPECTION (NRC INSPECTION REPORT 05000327/2005011 AND 05000328/2005011)

Dear Mr. Singer:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a triennial fire protection baseline inspection of the Sequoyah Nuclear Power Plant in October and November 2005. The inspection team will be led by Mr. Robert Schin, NRC Senior Reactor Inspector, of the Region II Office. The team will be composed of personnel from the NRC Region II Office. The inspection will be conducted in accordance with the NRC's baseline fire protection inspection procedure 71111.05T.

The inspection objective will be to evaluate your fire protection program implementation with emphasis on post-fire safe shutdown capability and the fire protection features provided to ensure at least one post-fire safe shutdown success path is maintained free of fire damage. The inspection team will focus their review on the separation of the systems and equipment necessary to achieve and maintain safe shutdown and fire protection features of selected fire areas.

On July 27, 2005, during a telephone conversation between Mr. Paul Pace, Licensing and Industry Affairs Manager for Sequoyah and Watts Bar, and Mr. Schin, our respective staffs confirmed arrangements for a three-day information gathering site visit and a two-week onsite inspection. The schedule for the inspection is as follows:

- C Information gathering visit: Week of October 3-7, 2005
- C Week 1 of onsite inspection: October 31 - November 4, 2005
- Week 2 of onsite inspection: November 14-18, 2005

The purposes of the information gathering visit are to obtain information and documentation needed to support the inspection and to become familiar with the Sequoyah Nuclear Power Plant fire protection program features, post-fire safe shutdown capabilities, and plant layout. The types of documents the team will be interested in reviewing, and possibly obtaining, are listed in the Enclosure. Please contact Mr. Schin prior to preparing copies of the materials listed in the Enclosure. The inspection team will try to minimize your administrative burden by specifically identifying those documents required for inspection preparation.

During the information gathering visit, the team will also discuss the following inspection support administrative details: office space; specific documents requested to be made available to the team in their office space; arrangements for reactor site access (including radiation protection training, security, safety and fitness for duty requirements); and the availability of knowledgeable plant engineering, operations, and licensing organization personnel to serve as points of contact during the inspection.

We request that during the onsite inspection weeks you ensure that copies of analyses, evaluations, or documentation regarding the implementation and maintenance of the Sequoyah Nuclear Power Plant fire protection program, including post-fire safe shutdown capability, be readily accessible to the team for their review. Of specific interest are those documents which establish that your fire protection program satisfies NRC regulatory requirements and conforms to applicable NRC and industry fire protection guidance. Also, personnel should be available at the site during the inspection who are knowledgeable regarding those plant systems required to achieve and maintain safe shutdown conditions from inside and outside the control room (including the electrical aspects of the relevant post-fire safe shutdown analyses), reactor plant fire protection systems and features, and the Sequoyah Nuclear Power Plant fire protection program and its implementation.

Your cooperation and support during this inspection will be appreciated. If you have questions concerning this inspection or the inspection team's information or logistical needs, please contact Mr. Schin at (404) 562-4629, or me at (404) 562-4669.

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

Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

D. Charles Payne, Chief
Engineering Branch 2
Division of Reactor Safety

Docket Nos.: 50-327, 50-328
License Nos.: DPR-77, DPR-79

Enclosure: Triennial Fire Protection Inspection Support Documentation

cc w/encl: (See page 3)

TVA

3

cc w/encl:

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 x PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE x NON-SENSITIVE
 ADAMS: x Yes ACCESSION NUMBER: _____

OFFICE	RII:DRS	RII:DRS	RII:DRP				
SIGNATURE	/RA/	/RA/	/RA/				
NAME	R.Schin	P.Fillion	S.Cahill				
DATE	7/27/2005	7/27/2005	7/27/2005	7/ /2005	7/ /2005	7/ /2005	7/ /2005
E-MAIL COPY?	YES	NO	NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: E:\Filenet\ML052090357.wpd

Triennial Fire Protection Inspection Support Documentation

[Note: This is a broad list of the documents the NRC inspection team may be interested

Enclosure

in reviewing, and possibly obtaining, during the information gathering site visit. The current version of these documents is expected unless specified otherwise. Electronic media is preferred, if readily available. (The preferred file format is searchable “.pdf” files on CDROM. The CDROM should be indexed and hyperlinked to facilitate ease of use. Please provide 5 copies of each CDROM submitted.) Information in “lists” should contain enough information to be easily understood by someone who has a knowledge of the technology. The lead inspector will discuss specific information needs with the licensee staff and may request additional documents.

1. The Fire Protection Program and the Fire Hazards Analysis.
2. The fire protection program implementing procedures (e.g., administrative controls, surveillance testing, fire brigade).
3. Fire brigade training program document and the pre-fire plans for the selected fire areas/zones (to be determined during information gathering visit).
4. The post-fire safe shutdown analysis, including system and separation analyses.
5. The alternative shutdown analysis.
6. Piping and instrumentation (flow) diagrams for the fire suppression systems.
7. Piping and instrumentation (flow) diagrams for the systems and components used to achieve and maintain hot standby, and cold shutdown, for fires involving shutdown from the control room. Also, simplified (training) flow diagrams of the systems, if available.
8. Piping and instrumentation (flow) diagrams for the systems and components used to achieve and maintain hot standby, and cold shutdown, for fires in areas requiring alternative or dedicated shutdown capability. Also, simplified (training) flow diagrams of the systems, if available.
9. Electrical one-line drawings showing AC power distribution (4KV, 480V, and 120V vital power) and 125V/240V DC power distribution. Also, include lists of loads supplied from each switchgear, motor control center, and distribution panel.
10. Plant layout and equipment drawings which identify the physical plant locations of hot standby and cold shutdown equipment.
11. Plant layout drawings which identify plant fire area and/or fire zone delineation, areas protected by automatic fire suppression and detection, and the locations of fire protection equipment for the selected fire areas/zones (to be determined during information gathering visit).

12. Plant layout drawings which identify the general location of the post-fire emergency lighting units and the related post-fire safe shutdown local actions plus access and egress routes.
13. Plant operating procedures used for, and describing, shutdown from inside the control room with a postulated fire occurring in any plant area outside the control room.
14. Plant operating procedures used to implement the alternative shutdown capability from outside the control room with a fire in either the control or cable spreading room (or any other alternative shutdown area).
15. Operator training for post-fire safe shutdown, including lesson plans, simulator scenarios, and job performance measures (JPMs).
16. Maintenance and surveillance testing procedures for alternative shutdown capability (including Appendix R emergency lights and communication systems) and fire barriers, detectors, fire pumps, and fire suppression systems.
17. Calculations and/or justifications that verify fuse/breaker coordination for the selected fire areas/zones (to be determined during information gathering visit) that are fed off the same electrical buses as components in the protected train. Also, a list of the maintenance procedures used to routinely verify fuse/breaker coordination in accordance with the post-fire safety shutdown coordination analysis.
18. A list of the significant fire protection and post-fire safe shutdown design change descriptions (including their associated 10 CFR 50.59 evaluations) and Generic Letter (GL) 86-10 evaluations in the last three years.
19. A list of the protection methodologies (as identified in 10 CFR Part 50, Appendix R, Section III.G) used to achieve regulatory compliance for the selected fire areas/zones (to be determined during information gathering visit). That is, please specify whether 3-hour rated fire barriers (Section III.G.2.a), 20-foot separation along with detection and suppression (Section III.G.2.b), 1-hour rated fire barriers with detection and suppression (Section III.G.2.c), or alternative dedicated shutdown capability (Section III.G.3) is used for the selected fire areas/zones.
20. Procedures or instructions that govern the implementation of plant modifications, temporary modifications, maintenance, and special operations, and their impact on fire protection.
21. Organization chart(s) of site personnel down to the level of the fire protection staff.
22. Procedures or instructions that control the configuration of the fire protection program, features, and post-fire safe shutdown methodology and system design.

23. A list of applicable codes and standards related to the design of plant fire protection features and evaluations of code deviations (i.e., a listing of the NFPA code editions committed to (Code of Record)).
24. Fire protection QA audits and/or fire protection self-assessments in the last three years.
25. A list of open and closed fire protection problem identification and resolution reports [also know as action requests/condition reports/problem reports/problem investigation reports/NCRs/EARs] associated with fire protection or Appendix R safe shutdown for the past three years.
26. A list of plant fire protection licensing basis documents (i.e., a list of the SERs and change evaluations which form the licensing basis for the facility's post-fire safe shutdown configuration).
27. A list of fire protection or Appendix R calculations.
28. A list of fire impairments identified during the previous year.
29. A list of abbreviations/designators for plant systems.