July 3, 2003

Mr. John L. Skolds, President
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: DRESDEN NUCLEAR GENERATING STATION
ANNOUNCEMENT OF BASELINE INSPECTIONS

Dear Mr. Skolds:

On August 11, 2003, the NRC will begin combined required biennial engineering inspections of: (1) Evaluation of Changes, Tests and Experiments (50.59); (2) Permanent Plant Modifications (PPM); and (3)Safety System Design and Performance Capability Inspection (SSDI) at your Dresden Nuclear Generating Station. These inspections will be performed in accordance with NRC baseline inspection procedures 71111.02 (50.59), 71111.17B (PPM) and 71111.21 (SSDI). The systems selected for detailed review during the SSDI baseline inspection are the High Pressure Coolant Injection (HPCI) and the 4 KV and the 480 volt Electrical systems.

Experience has shown that these baseline design inspections are extremely resource intensive for both the NRC inspectors and the utility staff. In order to minimize the impact that the inspection has on the site and to ensure a productive inspection for both sides, we have enclosed requests for the documents needed to effectively plan and implement these inspections. See the three attached document requests.

The documents requested for the SSDI inspection (see Enclosure 2) have been divided into two groups. The first group is primarily comprised of lists of information necessary to ensure that the inspection team can be adequately prepared for the inspection prior to arrival at the plant. The second group of documents requested are those items which the team will need access to during the inspection.

The information requested in Enclosure 1, the first group of Enclosure 2 and Enclosure 3 should be available in the NRC Region III Offices no later than July 31, 2003. The lead inspector expects to make a short trip to the site on July 29, 2003, to meet with the assigned technical and regulatory contacts and to obtain and preliminarily review this information. The inspection team will begin review of the information during the week of August 4, 2003, and will request specific items from the lists which should be available for review when the team arrives onsite.

In accordance with 10 CFR 2.790 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).

The lead inspector for this inspection is Hershell (Al) Walker. If there are questions about the material requested, or the inspections, you may call the lead inspector at (630) 829-9728 or e-mail him at haw@nrc.gov. If you cannot reach Mr. Walker, you may contact me at (630) 829-9731 or by e-mail at jfl@nrc.gov.

Sincerely,

***/RA by HWalker Acting for/***

Julio F. Lara, Chief
Electrical Engineering Branch
Division of Reactor Safety

Docket Nos. 50-237; 50-249
License Nos. DPR-19; DPR-25

Enclosures:
1. SSDI Inspection Document Request
2. 50.59 Inspection Document Request
3. PPM Inspection Document

cc w/encls:
Site Vice President - Dresden Nuclear Power Station
Dresden Nuclear Power Station Plant Manager
Regulatory Assurance Manager - Dresden
Chief Operating Officer
Senior Vice President - Nuclear Services
Senior Vice President - Mid-West Regional Operating Group
Vice President - Mid-West Operations Support
Vice President - Licensing and Regulatory Affairs
Director Licensing - Mid-West Regional Operating Group
Manager Licensing - Dresden and Quad Cities
Senior Counsel, Nuclear, Mid-West Regional Operating Group
Document Control Desk - Licensing
M. Aguilar, Assistant Attorney General
Illinois Department of Nuclear Safety
State Liaison Officer
Chairman, Illinois Commerce Commission

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Dresden Nuclear Power Station Plant Manager
Regulatory Assurance Manager - Dresden
Chief Operating Officer
Senior Vice President - Nuclear Services
Senior Vice President - Mid-West Regional Operating Group
Vice President - Mid-West Operations Support
Vice President - Licensing and Regulatory Affairs
Director Licensing - Mid-West Regional Operating Group
Manager Licensing - Dresden and Quad Cities
Senior Counsel, Nuclear, Mid-West Regional Operating Group
Document Control Desk - Licensing
M. Aguilar, Assistant Attorney General
Illinois Department of Nuclear Safety
State Liaison Officer
Chairman, Illinois Commerce Commission

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| DATE | 07/03/03 | | 07/03/03 | | 07/03/03 | | | |

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ENCLOSURE 1

**GENERAL INSPECTION INFORMATION TO BE PROVIDED TO REGION III BEFORE JULY 31, 2003**

The following information is requested by July 31, 2003, or sooner, to allow assigned inspectors to become familiar with plant procedures, documents and engineering methods.

- A current plant management and engineering organizational chart
- A listing of designated plant systems with assigned systems engineers
- Engineering Design Procedures including calculation and 10 CFR 50.59 control
- Problem Identification and resolution procedures

ENCLOSURE 2

**SAFETY SYSTEM DESIGN AND PERFORMANCE CAPABILITY INSPECTION (SSDI)**

***Information Requested for In-Office Preparation Week***

The following information is requested by July 31, 2003, or sooner, to facilitate the selection of specific items that will be reviewed during the onsite inspection week. The team will select specific items from the information requested below and submit a list to your staff so that the specific information selected and requested can be available and ready for review on the first day of the inspection. All requested information should include information from the last SSDI inspection dated July 2, 2001, to the present. Information may be provided electronically (haw@nrc.gov) or by hard copy.

The information requested items requested below apply only to the selected system(s):

High Pressure Coolant Injection
4 KV AC Electrical System
480 volt Electrical System

(1) One copy of the system(s) description, design basis document(s), related training manual(s) and system health report(s)

(2) One copy of the normal and abnormal operating procedures

(3) Three half-size (18" x 24") copies of the piping and instrument drawings (P&IDs)

(4) Two half-size (18" x 24") copies of the electrical schematics, single-line and key diagrams

(7) A copy of the calculation preparation and control procedure

(8) Specifically identify (by number) the latest calculation(s) that address each of the following areas. If a calculation cannot be identified for a particular area, please provide an explanation of why a calculation is not necessary.

- Breaker and fuse coordination calculations
- Diesel loading calculations
- Instrument uncertainty calculations
- Room temperature environmental qualification calculations for major equipment
- Relay setting calculations
- Setpoint calculations for all technical specification or emergency operation procedure equipment
- Time delay calculations (for any component incorporating time delay features)
- Undervoltage and degraded voltage calculations

- Voltage drop calculations for all major electrical components (motors, MOVs)
- Check valve leakage criteria calculations
- Design basis (flow rates, levels, pressures, temperatures) confirmation calculations (including NSSS calculations)
- Heat exchanger calculations
- NPSH and total dynamic head calculations
- Operability determination support calculations
- Pressure transient/ water hammer evaluations
- Pump minimum recirculation flow calculations
- Relief valve sizing calculations
- Tank over-pressurization calculations
- Tank sizing calculations

(9) List of all major modifications or set-point changes made to the selected system(s) since pre-operational testing. Major changes are those that significantly affected the way the system operated, for example, replacement of major components, modification to electrical control logic, etc. Please include the number and title, the modification purpose (description), the date, the status (whether the calculation is active, canceled, superceded or under revision) and a technical contact. Spell out abbreviations, or acronyms and give word titles for any numbers. Note if any of the modifications required prior NRC approval. One way to provide this information is by providing the first sheet of the modification (not the cover letter).

(10) List of temporary modifications, if any.

(11) List of the selected system(s) electrical equipment/components that have been removed from the licensee's EQ Program, if any.

(12) List of condition reports (corrective action documents) that are in one of the following categories. For each condition report, besides the number and title, clearly designate the status (open/closed), the importance ranking, the date initiated, the date closed (if applicable), the status of corrective actions, and a technical contact. (Note: it is not necessary to provide a separate list for each category)

- Any condition report initiated more than two years prior to the inspection that is still open
- Any condition report (open or closed) initiated in the last two years that required an apparent or root cause analysis (i.e., Category 1 or 2 condition reports)
- Any condition report (open or closed) initiated in the last two years that required an operability determination (include determination)
- Any condition report (open or closed) initiated in the last two years that related to problems with the quality of engineering (not system specific)

(13) The corrective maintenance history of major components for the last two years.

(14) List of operability evaluations as far back as retrievable. Include both those currently relied upon and those that were previously relied upon for operability.

(15) List of Engineering Related Operator Workarounds.

## *II. Information Requested to be Available on First Day of Inspection (March 24, 2003)*

We request that the following information be available to the team once the team arrives onsite. Some documents, such as the Updated Final Safety Analysis Report (UFSAR) or the Technical Specification (TS), do not need to be solely available to the team (i.e., they can be located in a reference library) as long as the team has ready access to them. However, they should be located prior to the inspection team arriving on site such that if the team requests any of these documents they are available within a short time (i.e., less than two hours).

(1) Copies of the calculations indicated by subject area in item I.(7), excluding data files. Please review the calculations and also provide copies of referenced material (such as drawings, engineering requests, vendor letters.)

(2) Copies of all MAJOR design changes, modifications and set-point changes as indicated in item I.(8). For each modification, as a minimum provide the purpose, the 10 CFR 50.59 evaluation or screening, and the completed post-modification test.

(3) Copies of any open temporary modifications.

(4) Copies of all condition reports (corrective action documents) indicated in item I.(11), including any associated root/apparent cause analyses and operability determinations.

(5) An Index of the surveillances for ALL Technical Specification equipment completed during the last two years.

(6) List of all maintenance, surveillance, and annunciator response procedures related to the systems. Include name as well as number. For the surveillance procedures, provide a cross-reference which shows how each technical specification requirement is being met.

(7) One copy of each major equipment drawing (valves, pumps, tanks, strainers), including pump head curves (½ size, 18" x 24")

(8) Copies of isometric drawings for major flow paths (½ size)

(9) Copies of elementary diagrams (½ size)

(10) Index of wiring diagrams (½ size)

(11) Copies of loop drawings (½ size)

(12) Copies of P&IDs referred to on the system P&ID (½ size)

(13) Copies of instrumentation and control logic drawings (½ size)

(14) Maintenance history of major components for the last two years

(15) A copy of any self-assessments and associated corrective action documents generated in preparation for the inspection.

(16) Reference materials (make available if needed):
- Equipment qualification binders
- General set of plant drawings
- IPE/PRA report
- Pre-operational tests, including documents showing resolution of deficiencies
- Procurement documents for major components in each system (verify retrievable)
- Relevant operating experience information (such as vendor letters or utility experience)
- Standards used in system design (such as IEEE, ASME, TEMA)
- System procedures
- Technical Specifications
- Technical Data Book
- Updated Final Safety Analysis Report
- Vendor manuals

(17) Copies of selected operability evaluations and plans for restoring operability, if applicable. Include contact person for each item. The team will select specific documents to review approximately one week prior to the inspection.

(18) Copies of selected work-around evaluations and plans for resolution. Include contact person for each item. The team will select specific documents to review approximately one week prior to the inspection.

**a. Permanent Plant Modifications**

(1) List of permanent plant modifications to risk significant SSCs involving: (a) permanent plant changes; (b) design changes; (c) set point changes; (d) equivalency evaluations; (e) suitability analyses; (f) calculations; (g) commercial grade dedications. [1]

(2) List of condition reports (open and closed) issued to address plant permanent modification issues/concerns. [1]

(3) Copy of modification procedure(s) and post modification testing procedure.

**b. Changes, Tests, or Experiments**

(1) List of all 10 CFR 50.59 completed evaluations involving: (a) changes to facility (modifications); (b) procedure revisions; (c) tests or non-routine operating configurations; (d) changes to the UFSAR; (e) calculation. [1]

(2) List of all 10 CFR 50.59 screenings that have been screened out as not requiring a full evaluation involving: (a) changes to facility (modifications); (b) procedure revisions; (c) tests or non-routine operating configurations; (d) changes to the UFSAR; (e) calculations. [1]

(3) List of condition reports generated because of problems associated with 10 CFR 50.59 evaluations. [1]

(4) Copies of procedures that specify how 10 CFR 50.59 evaluations and screenings are performed.

(5) Copies of procedures that delineate how 10 CFR 50.59 UFSAR updates are prepared by engineers or staff and how the licensee submits 10 CFR 50.59 UFSAR updates.

(6) List of special tests or experiments and non-routine operating configurations in the last two years (if any).

[1] Provide information requested going back two years.