

DmB

OCT 19 1984

Docket No. 50-461

Illinois Power Company
ATTN: Mr. W. C. Gerstner
Executive Vice President
500 South 27th Street
Decatur, IL 62525

Gentlemen:

Subject: NRC Independent Measurements:

This letter is to confirm the NRC's plan to perform an independent verification inspection at the Clinton facility, Unit 1, using the NRC NDE van and contractor technicians under NRC direction. This plan was discussed by Mr. P. T. Gwynn of the NRC Region III staff, with Mr. W. Connell and others of your staff on October 12, 1984.

We consider this inspection to be an independent verification of construction at the Clinton facility, Unit 1. Construction activities and materials will be sampled through nondestructive examinations as a supplement to our existing inspection efforts. Similar future nondestructive examinations by NRC are planned on a routine basis at other licensee construction sites.

This inspection at the Clinton facility, Unit 1, is expected to begin on November 5, 1984, and will be completed on November 16, 1984. We have requested documentation packages for each of the welds selected to be prepared by your staff. Additional information on the documentation selected for inspection is provided in Attachment A. It is requested that all data packages be in the NRC Region I office by October 26, 1984. NRC will review your documentation packages and update NRC procedures to be consistent with your procedures. All documentation supplied by your staff will be returned upon request at the completion of the inspection.

Members of your staff will be kept informed of your inspection progress and significant findings. An exit meeting with you or members of your staff will be conducted on November 16, 1984, in accordance with our normal procedures.

The evaluation of examination results and preparation of an inspection report will be completed and the results of the inspection will be transmitted to you through the standard NRC inspection report.

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If you should have any further questions regarding this planned inspection, please contact the assigned Senior Resident Inspector, or R. C. Knop of the NRC Region III Office.

Your cooperation in this matter is appreciated.

Sincerely,

for *Carl J. Paparella*
C. E. Norelius, Director
Division of Reactor Projects

Enclosures: As Stated

- cc w/encls:
- DMB/Document Control Desk (RIDS)
- Resident Inspector, RIII
- Richard Hubbard
- Gary N. Wright, Manager
- Nuclear Facility Safety
- Jean Foy, Prairie Alliance
- Allen Samuelson, Assistant
- Attorney General,
- Environmental Control Division

RIII *RCK*
Knop/bl
10/18/84

RIII
RW
Warnick

RIII
ASL
Danielson
10/19/84

RIII
CJP
Norelius
10/19/84

NDE VAN SITE REQUIREMENTS

ATTACHMENT A

We request that the NRC-NDE Van be positioned as near as practicable to the containment area entrance to facilitate the performance of NRC-NDE independent inspections.

The van requires the following connections while sited at your facility:

1. Site water with a garden hose connection - this water is for film rinse water.
2. Requirement for film rinse water drain (continual). No chemical disposal will occur from the van without prior concurrence from appropriate licensee personnel. At the end of the independent inspection, the NRC needs to dispose of the film developing chemicals prior to moving the van from the site.
3. Two 30 amp 110 volt circuits are required for operation of the van during film developing and related activities.
 - The radiation source will be a nominal 100 curies IR-192 source. This source is licensed by NRC, but owned by the NRC contractor.
 - The names of the NRC and contractor NDE personnel will be supplied to you by Region I. Clearance for these personnel is necessary.
 - The NDE personnel will modify their procedures to meet your ASME Code and Addenda requirements.
 - We request that you hold a mini-radiation safety training course for the four NDE personnel. This course should familiarize the personnel with your facility and procedures and should not exceed 2 hours in length.
 - The van will contain PT and MT approved materials. They will need two rolls of your chemically approved tape and two approved markers for identifying welds and marking weld areas.

It will be necessary for you to remove the paint, rust or other material that could interfere with PT or MT on the selected welds. Also, we will require scaffolding for access and to have insulation removed as needed.

After the welds have been selected for NDE inspection, we request that you prepare a package containing the following on each weld:

- Inspection Report
- Weld History (QC History)
- Material Certifications for base materials
- Weld Wire Certifications
- Piping drawings, Isometric of weld locations
- NDE Reports on all NDE performed
- NDE Procedures for RT, PT, MT and VT
- Weld Procedures

The assembled packages should be forwarded to:

- US Nuclear Regulatory Commission
- Region I
- 631 Park Avenue
- King of Prussia, Pennsylvania 19406

ATTN: Mr. Harry Kerch

SCOPE OF INSPECTION

ATTACHMENT B

The NDE van team will perform the following examinations and inspections as appropriate:

Radiography - Pipe butt and socket welds, appropriate pressure boundary components.

Ultrasonics - Flaw detection and material thickness measurements, as appropriate, of piping, welds, structural components, vessels, heat exchangers, bolting and other equipment.

Liquid Penetrant - Piping system components and structural elements.

Magnetic Particle - Piping system components and structural elements.

Hardness Testing - All of the previously listed components.

Windsor Probe - Safety-related concrete.

Delta Ferrite Indications (Severn Gage) - Stainless steel welds.

Alloy Analysis - Selected metallic components will have confirmatory chemical analysis performed.

Visual Examinations - Weld quality, configuration verification of piping and structural systems.

Quality Records Review - Welding documentation, materials and personnel certification, NDE records to include radiographs.