

DEC 12 1984

Docket No. 50-277

Philadelphia Electric Company
ATTN: S. L. Daltroff
Vice President - Electric Production
2301 Market Street
Philadelphia, Pennsylvania 19101

Gentlemen:

Subject: NRC Independent Measurements

The NRC will perform an independent verification inspection during the period January 14 through 24, 1985, at Peach Bottom Nuclear Power Station, Unit 2, using the NRC Nondestructive Examination (NDE) Van and contractor technicians under NRC direction. Construction activities and materials will be sampled through nondestructive examinations as a supplement to our existing inspection efforts. Similar nondestructive examinations by the NRC have been performed on a routine basis at other licensee operating sites.

The inspection will consist of fabrication and installation examinations and review of quality documentation for conformance to the required piping code. The NRC staff will work closely with your staff to develop a work schedule that will minimize our impact on your outage schedule. We anticipate that we will require 36 hours, distributed over the two week period, of containment access to perform radiography. During the performance of radiography, we will require restricted personnel access to containment for radiological safety purposes.

You should prepare and transmit, to the attention of J. P. Durr, Region I, a list of required information necessary for the NRC team to obtain access to the Peach Bottom Station.

Members of your staff will be kept informed of our inspection progress and significant findings. An exit meeting with you or members of your staff will be conducted on January 25, 1985, 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. Additional information relating to the NDE van activities at your facility are discussed in Attachments B and C.

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If you should have any further questions regarding this planned inspection, please contact the assigned Senior Resident Inspector, or Mr. Jacque P. Durr at (215) 337-5282 of the NRC Region I Office. Your cooperation in this matter is appreciated.

Sincerely,

Original Signed By:
Stewart D. Ebneter

for Thomas T. Martin, Director
Division of Engineering and
Technical Programs

Attachments:
As Stated

cc w/encl:
R. S. Fleischmann, Station Superintendent
John S. Kemper, Vice President, Engineering and Research
Troy B. Conner, Jr., Esquire
Eugene J. Bradley, Esquire, Assistant General Counsel
Raymond L. Hovis, Esquire
Michael J. Scibinico, II, Assistant Attorney General
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
NRC Resident Inspector
Commonwealth of Pennsylvania

bcc:
Region I Docket Room (with concurrences)
Section Chief, DPRP

RW/Av
RI:DETP
Kerch
12/7/84

RW/Av
RI:DETP
Durr
12/7/84

Stewart D. Ebneter
RI:DETP
Ebneter
12/12/84

OFFICIAL RECORD COPY

SUPPLEMENTAL NDE VAN INFORMATION

ATTACHMENT A

1. NDE Van Support Requirements

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

- a. The van requires the following connections while sited at your facility:
 - Site water with a garden hose connection - this water is for film rinse.
 - 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.
 - Two 30 amp, 110 volt circuits are required for operation of the van.
- b. The van will contain PT and MT approved materials. The team will need two rolls of your chemically approved tape and two approved markers for identifying welds and marking weld areas.
- c. 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 need scaffolding erected and insulation removed for access.

2. Administrative Information

- a. The radiation source will be a nominal 100 curie IR-192 source. This source is licensed by NRC, but owned by the NRC contractor.
- b. The names of the NRC and contractor NDE personnel will be supplied to you by Region I. Clearance for these personnel is necessary.

Attachment A (Continued)

- c. We request that you enroll five NRC NDE van personnel in your NRC plant specific training. This should familiarize our personnel with your facility and procedures. Also, we require a copy of your radiographic safety procedure to review for familiarization. All five NRC personnel will be on site for training and badging by 1:00 pm, Monday, January 14, 1984.
- d. A camera site pass will be needed for a Canon AE-1, 35 mm, camera, Serial No. 1969401.
- e. The NDE personnel will be using 5 watt Motorola radios on the site; the frequency used by the NRC is 165.6625 MHz.

NDE VAN SITE REQUIREMENTS

ATTACHMENT B

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 welds locations
- NDE Reports on all NDE performed
- NDE Procedures for RT, PT, MT and VT
- Weld Procedures
- Piping and Installation Procedure (only section that specifies code and addenda)

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 C

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

Radiography:

Pipe butt and socket welds and other appropriate pressure boundary components.

Ultrasonics:

Flaw detection and material thickness measurements, as appropriate, of piping, welds, structural components, vessels, heat exchangers, bolts 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 and configuration verification of piping and structural systems.

Quality Records Review:

Welding documentation, materials and personnel certification, NDE records to include radiographs.