FEB 19 1985

Docket No. 50-354

Public Service Electric & Gas Company
ATTN: Mr. T. J. Martin
Vice President - Engineering and Construction
80 Park Plaza - 17C
Newark, New Jersey 07101

Gentlemen:

Subject: NRC Independent Measurements

The NRC will perform an independent verification inspection at Hope Creek Nuclear Power Station, Unit 1, 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 onsite will begin on March 11, 1985, and will conclude on March 22, 1985. Welds will be selected by the NRC resident inspector for examination by the NDE van team. We request that documentation packages be prepared by your staff for the selected welds. Additional information on the requested document packages is provided in Attachment A. It is requested that all document packages be in the NRC Region I office by February 25, 1985. The data packages will be reviewed by the Regional office for completeness and technical content. We will update our NDE procedures to be consistent and with your committed codes and standards. All documentation supplied by your staff will be returned, upon request, at the conclusion of the inspection.

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 March 22, 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.

1/1 IE01

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:
Jacque P. Durr

for Stewart D. Ebneter, Director
Division of Reactor Safety

Attachments:
As Stated

cc w/encl:
A. E. Giardino, Manager, Quality Assurance Engineering
and Construction
R. L. Mittl, General Manager, Corporate QA
Hope Creek Hearing List
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
NRC Resident Inspector
State of New Jersey

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

RI:DRS
Kerch
1/31/85

RI:DRS
Durr
1/31/85

for RI:DRS
Ebneter
1/31/85

OFFICIAL RECORD COPY

DATA PACKAGES - ATTACHMENT A

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
Bolt Torquing Procedures (Structural and Pipe Hangers)
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

SUPPLEMENTAL NDE VAN INFORMATION

ATTACHMENT B

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 approve 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 B (Continued)

c. We request that you hold a mini-radiation safety training course for the NRC NDE personnel. This course should familiarize the personnel with your facility and procedures and should not exceed 2 hours in length.

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.

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.