POWER AUTHORITY OF THE STATE OF NEW YORK

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December 3, 1982
IPN-82-76

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

Subject: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
Congressional Request for Information
Concerning Steam Generator Tube
Integrity (Generic Letter No. 82-22)

Dear Sir:

By letter dated October 26, 1982 you transmitted the subject request of Congressman Edward J. Markey, Chairman of the Subcommittee on Oversight and Investigation.

Enclosed herewith as Attachment A are the Authority's responses to the steam generator questionnaire.

Should you or your staff have any questions please contact Mr. P. Kokolakis of my staff.

Very truly yours,

J. P. Bayne
Executive Vice President
Nuclear Generation

Att.

cc: attached

A001

ATTACHMENT A

STEAM GENERATOR QUESTIONNAIRE RESPONSES

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
DECEMBER , 1982

STEAM GENERATOR-RELATED - QUESTIONNAIRE

	RESPONSE BY YEAR			
	1979	1980	1981	1982
HOW MANY DAYS OF UNSCHEDULED OUTAGES CAN BE ATTRIBUTED TO STEAM GENERATOR-RELATED DIFFICULTIES PER YEAR AT YOUR SITE?	6	0	54	(See Note 8)
DURING EACH OF THE YEARS IN QUESTION, HOW MANY STEAM GENERATOR TUBES HAVE BEEN PLUGGED IN EACH STEAM GENERATOR? (See Note 1)	449	9	371	
SLEEVED IN EACH STEAM GENERATOR?	0	0	0	
WHAT HAVE BEEN THE TOTAL COSTS AND SPECIFICALLY REPLACEMENT POWER COSTS ASSOCIATED WITH STEAM GENERATOR MAINTENANCE, REPAIR AND REPLACEMENT AT YOUR PLANT? (See Notes 2 and 3)	$910k/ $4,800k	$70k/ $0	$2,050k/ $43,200k	
WHAT HAS BEEN THE TOTAL OCCUPATIONAL RADIATION EXPOSURE (IN PERSON-REMS) CAUSED BY STEAM GENERATOR MAINTENANCE? (See Note 4)	50.7	4.42	0	
REPAIR/REPLACEMENT ?	84.4	10.8	206	
WHAT PERCENTAGE OF TOTAL ANNUAL EMPLOYEE DOSE HAS BEEN ATTRIBUTABLE TO STEAM GENERATOR RELATED WORK AT YOUR SITE(S)?	20%	5%	57%	
DURING THE YEARS IN QUESTION HOW MANY WORKERS HAVE RECEIVED MEASUREABLE RADIATION DOSES FOR STEAM GENERATOR RELATED WORK?	161	66	245	
WHAT PERCENTAGE OF THE TOTAL WORKFORCE DO THESE WORKERS REPRESENT? (See Note 5)	14%	5%	22%	
HOW MANY TEMPORARY WORKERS (defined by the NRC as all workers other than those hired directly by nuclear power plants on a conventional, long-term basis) RECEIVED DOSES FROM STEAM GENERATOR-RELATED WORK AT YOUR FACILITY EACH YEAR?	(See Note 6) 109	33	167	
WHAT PERCENTAGE OF TOTAL WORKERS INVOLVED WITH STEAM GENERATOR-RELATED WORK DO TEMPORARY WORKERS REPRESENT?	(See Note 6) 68%	50%	68%	
THE TOTAL WORKFORCE DO TEMPORARY WORKERS REPRESENT? (See Note 7)	86%	83%	76%	
HAS YOUR COMPANY USED INDEPENDENT FIRMS TO FIND TEMPORARY EMPLOYEES WHO HAVE RECEIVED AN OCCUPATIONAL DOSE FROM STEAM GENERATOR-RELATED WORK?	NO			

DO YOU ANTICIPATE MAJOR STEAM GENERATOR REPAIRS IN ANY OF YOUR UNITS IN THE NEXT FIVE YEARS, AND IF SO HOW MUCH WOULD THESE REPAIRS COST, PLEASE SPECIFY.

The estimated cost of the current steam generator tube repairs is $19 million see note 8). There are no other major steam generator repairs anticipated within the next five years.

NOTES

1. Total number of steam generator tubes plugged for all four (4) steam generators.

2. An estimated value of $800,000/day has been used to calculate replacement power costs.

3. The first dollar amount represents the total costs of repair and maintenance, whereas the second indicates the replacement power cost associated with the periods given in response to question 1 above.

4. Maintenance is considered to be routine eddy current testing (ECT), in-service inspection and sludge lancing. Repair is considered to be tube plugging and ECT directly related to the repair.

5. Total work force is defined as all radiation workers which includes both employees and contractor workers.

6. All the data concerning the number of workers for 1979 is not accessible within the given time period. Therefore the 1979 values are extrapolated from 1981 data since the type of steam generator work performed in both years was similar in nature.

7. The percentage values are high due to used definition of the total work force (see Note 5) and the fact that the percentage is calculated from the ratio of workers rather than of person-days (e.g., a temporary worker at the site for only one day would be considered as equivalent to any regular full time Authority employee).

8. Presently, sleeving and plugging repairs to the steam generators are in progress. These efforts are expected to be completed in early 1983 at which time the final information requested will be available.