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Executive Vice President
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U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-137
Washington, D.C. 20555

SUBJECT: James A. FitzPatrick Nuclear Power Plant
Docket No. 50-333
Long-Term Pipe Support Inspection and Evaluation Program

Dear Sir:

The FitzPatrick Pipe Support Inspection Program (PSIP) is now complete. All remaining pipe support inspections were completed during the 1990 refueling outage. All supports in need of rework or engineering evaluation have been identified. The program's goal of ensuring that the pipe supports comply with applicable installation criteria have been met.

Attachment I summarizes the program. A total of 2851 pipe supports were inspected. No pipe supports within the scope of NRC Bulletins 79-02, 79-07 and 79-14 were degraded to an extent that they threatened system operability. However, five systems were temporarily declared inoperable as a result of problems with small bore pipe supports.

Many of the discrepancies that were identified during the inspections involved small incorrect details or minor welding defects. In other cases, discrepancies resulted from design drawings which prescribed construction details that exceeded Code requirements. Discrepancies like these have no effect on the operability of the support.

The Authority will coordinate the pipe support rework task with the FitzPatrick Inservice Inspection (ISI) program. The pipe support rework task will include engineering evaluations, revisions to design drawings or the repair of less significant deficiencies that do not impact operability. This will reduce the total personnel radiation dose (ALARA) and provide a significant cost savings by eliminating work that is duplicated by both the PSIP and the ISI programs. Drafting and engineering personnel will continue to supply those services necessary to complete the rework task. An estimate of 15,000 person-hours will complete the engineering and drafting activity. An estimate of 25,000 person-hours will complete the rework task. This combined effort will occur over the next six refueling outages.

If you have any questions, please contact Mr. J. A. Gray, Jr.

Very truly yours,



Ralph E. Beedle
Executive Vice President
Nuclear Generation

Attachment

cc: Regional Administrator
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**James A. FitzPatrick Nuclear Power Plant Final
Pipe Support Program**

The following three tables summarize the status of the Pipe Support Inspection Program (PSIP) as of March 1991. The left column labeled "IEB Scope," represents pipe supports within the scope of NRC IE Bulletins 79-02, 79-07 or 79-14. The column labeled "NYPA Scope" are additional supports in the FitzPatrick PSIP but not within the scope of the three Bulletins. The total number of supports within any one category is the sum of two columns. (For example: the total number of supports in the PSIP is $2246 + 605 = 2851$.)

The PSIP has cost approximately \$9,000,000. An additional \$3,000,000 will be invested to complete the two tasks: engineering requiring approximately \$750,000 and rework requiring approximately \$2,250,000. The program has consumed 185,000 person-hours and resulted in a total radiation exposure of 185 person-Rem.

**TABLE I
GENERAL SUMMARY**

<u>IEB Scope</u>	<u>NYPA Scope</u>	
2246	605	Pipe supports in the FitzPatrick PSIP.
2246	605	Pipe supports inspected using PSIP procedures.
225	151	Pipe supports acceptable as-found.
2021	454	Pipe supports unacceptable as-found due to physical or documentation deviations.

TABLE II
DEVIATION SUMMARY

<u>IEB Scope</u>	<u>NYPA Scope</u>	
1496	272	Pipe Supports with minor deviations. Minor deviations are defined as: documentation errors, drawings without design details (like welding requirements, material types, sizes or dimensions) minor weld quality defects and support identification requirements.
525	182	Pipe supports with significant deviations in this category can be further broken down into four subcategories:
<u>IEB Scope</u>	<u>NYPA Scope</u>	
357	98	Pipe supports with partially missing, undersized or poor quality welds that could result in support overstress or failure.
21	18	Pipe supports with members displaying signs of damage including bent rods, distorted load pins, or bent structural steel.
89	24	Pipe supports with loose fasteners or locking devices attributed to either vibration or construction defects.
58	42	Pipe supports with missing components or members attributable to operational effects or construction deficiencies.

TABLE III
OPERABILITY SUMMARY

<u>IEB Scope</u>	<u>NYPA Scope</u>	
0	5	Systems determined to be inoperable after analysis of an inoperable support.
18	27	Pipe support inspected and determined inoperable after analysis.
222	118	Pipe supports operable using FSIP procedures but do not meet original design codes.
1731	304	Pipe supports with some deviations but operable and meet original design codes.
<u>2021</u>	<u>454</u>	- Total Discrepancies