

John C. Brons
Executive Vice President
Nuclear Generation

July 10 , 1989 IPN-89-039

U.S. Nuclear Regulatory Commission

ATTN: Document Control Desk

Mail Station P1-137

Washington, D.C. 20555

Subject:

Indian Point 3 Nuclear Power Plant

Docket No. 50-286

Utilization of the Spec 200 Micro

in the RTD Bypass Elimination Modification

Reference: 1.

Letter dated June 7, 1989, from David Ringland

(Foxboro) to Richard Burroni (NYPA) concerning

the Spec 200 Micro Software

Dear Sir:

The Authority provides the following answers to questions raised in a June 6, 1989, telephone conversation between members of the NRC and Authority staffs. The "RTD Bypass Elimination Modification" utilizes Spec 200 Micro components, manufactured by The Foxboro Company. The gate and calc blocks are the only function blocks used in this application. In addition, the Foxboro Company verified in Reference 1 (attached) that an independent software validation and verification was performed for the Spec 200 Micro components offered for nuclear service.

The Authority also performed an independent review of the Foxboro validation and verification. On January 17, 1989, the Authority's Quality Assurance department issued a surveillance report verifying the adequacy of the Foxboro documentation regarding the Spec 200 Micro hardware components and software functions.

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

Very truly yours,

ohn C. Brons

Executive Vice President

Nuclear Generation

A001

cc: Mr. Joseph D. Neighbors, Senior Project Manager Project Directorate I-1 Division of Reactor Projects - I/II U.S. Nuclear Regulatory Commission Mail Stop 14B2 Washington, D.C. 20555

Resident Inspector's Office Indian Point Unit 3 U.S. Nuclear Regulatory Commission P.O. Box 337 Buchanan, NY 10511

U.S. Nuclear Regulatory Commission 475 Allendale Road King of Prussia, PA 19406

Foxboro, MA U.S.A. 02035-2099 Telephone 508-543-8750
Telex 927-602 or TRT 174090

## The Foxboro Company

June 7, 1989

Indian Point 3 Nuclear Power Project P.O. Box 215 Buchanan, New York 10511

Reference: SPEC 200 MICRO

Attention: Richard Burroni

Technical Services Department

## Gentlemen:

In our recent conversation concerning your reactor coolant system RTD Bypass elimination modification system, you mentioned that the NRC was questioning the resolution of several errors which were identified by Foxboro involving SPEC 200 MICRO software. Apparently there seemed to be no paper trail that concluded that these items were corrected when the NRC audited the Foxboro Company earlier this year with Northeast Utilities.

The Foxboro Company provided a follow-up response concerning this subject resulting from that NRC audit directly to Northeast Utilities. In our response the Foxboro Company stated that it had completed the following:

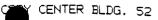
An independent post-project review of all block types to verify all software errors found and documented during project development control block code walkthroughs have been corrected has been completed. This completes the required "paper trail" to conclude these items have been corrected.

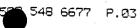
This review completed our response to this NRC question regarding all the SPEC 200 MICRO blocks which included the gate block and calc block used at Indian Point 3.

Verification of this review has been documented on a item-by-item basis and filed in the SPEC 200 MICRO Product File.



06/08/1989 10:02





Indian Point 3 June 7, 1989 Page 2

Independent code walkthroughs were conducted for the following block types: NONL, SWCH, SSEL, RATIO, RAMP, ACUM and INT. This was also done to complete the "paper trail" as the project development code walkthrough forms for these blocks were misplaced. No code errors found.

These code walkthroughs complete the walkthrough for all blocks offered for nuclear applications.

These walkthroughs constitute an independent review for these blocks.

Code walkthrough documentation is filed in SPEC 200 MICRO Product File.

If you have any questions please contact the undersigned at (508) 549-6333.

very truly yours,

THE FOXBORO COMPANY

David R. Ringland Senior Power Specialist

Nuclear Sales & Marketing

DRR: lm

