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MEMORANDUM FOR: Walter P. Haass, Chief, Quality Assurance Branch,  
Division of Project Management

FROM: John G. Spraul, Quality Assurance Branch,  
Division of Project Management

SUBJECT: TRIP REPORT: NATIONAL BOARD INSPECTION

Purpose: I participated in the inspection of the National  
Board of Boiler & Pressure Vessel Inspectors.

Attendees: See enclosure 1.

Date of Trip: March 18 through March 23, 1979

Location of Inspection: Columbus, Ohio

Summary: Inspection resulted in several follow-up items.  
See enclosure 1 for details.

Note: On March 22, 1979 I attended a meeting of Authorized  
Inspection Agencies and National Board representatives  
called by the Executive Director of the National Board.  
The notes of the meeting are included as enclosure 2.

Original signed by:  
J. C. Spraul

John G. Spraul  
Quality Assurance Branch  
Division of Project Management

- Enclosures:  
1. Inspection Report  
2. Meeting Notes

cc: D. J. Skovholt

307267

OFFICE	DPM:QAB	DPM:QAB				
SURNAME	JSpraul:ch	JGilray				
DATE	7/3/79	7/3/79				

*Anderson*



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION IV  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TEXAS 76011

0 2 APR 1979

Docket No. 99900617/79-01

The National Board of Boiler and  
Pressure Vessel Inspectors  
Attn: Mr. S. F. Harrison  
Executive Director  
1055 Crupper Avenue  
Columbus, Ohio 43229

Gentlemen:

This refers to the survey conducted by Mr. D. G. Anderson of this office on March 19-23, 1979, covering selected activities associated with your administration of the ASME Code Stamp System and to the discussions of our findings with you and members of your staff at the conclusion of the survey.

The areas examined are discussed in the enclosed survey report. Within these areas, the survey consisted of an examination of procedures and representative records, interviews with personnel and observations by the inspector.

In accordance with Section 2.790 of the Commission's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter together with the enclosed survey report will be placed in the Commission's Public Document Room located at 1717 H. Street, Washington, D. C. If this report contains any information that you believe to be proprietary, it is necessary that you make a written application within thirty (30) days to this office to withhold such information from public disclosure. Any such application must include a full statement of the reasons on the basis of which it is claimed that the information is proprietary and should be prepared so that proprietary information identified in the application is contained in a separate part of the document. If we do not hear from you in this regard within the specified period, the report will be placed in the Public Document Room.

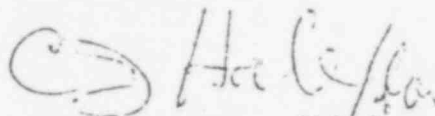
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The National Board of Boiler  
and Pressure Vessel Inspectors

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Should you have any questions concerning this survey, we will be pleased  
to discuss them with you.

Sincerely,



Uldis Potapovs, Chief  
Vendor Inspection Branch

Enclosure  
Report Survey No. 99900617/79-01

bcc:  
NRC INTER-OFFICE REVIEW COMMITTEE  
G. W. REINMUTH, IE:HQS  
W. R. RUTHERFORD, IE:HQS  
W. M. MORRISON, SD:HQS  
C. J. HELTEMES, QAB:HQS  
R. J. BOSNAK, DSS:HQS

PDR HQS  
CENTRAL FILES  
IE FILES  
WEVETTER, RIV  
ASME

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SURVEY REPORT

U. S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
REGION IV

Report No. 99900617/79-01

Program No. 51000

Company: The National Board of Boiler and  
Pressure Vessel Inspectors  
1055 Crupper Avenue  
Columbus, Ohio 43229

Survey Conducted: March 19-23, 1979

Inspectors: *D. G. Anderson* 3/30/79  
D. G. Anderson, Principal Inspector Date  
Vendor Inspection Branch

Observer: *C. J. Hale* 3-30-79  
J. G. Spraul, Nuclear Engineer, QAB/NRR Date

Reviewed by: *C. J. Hale* 3-30-79  
C. J. Hale, Chief, Program Evaluation Section Date  
Vendor Inspection Branch

Approved by: *C. J. Hale* 3-30-79  
U. Potapovs, Chief, Vendor Inspection Branch Date

Summary

Survey conducted on March 19-23, 1979 (99900617/79-01)

Areas Surveyed: National Board (NB) in the areas of: qualification, experience, and training of commissioned inspectors; investigations; records maintenance; test control; and action on previous survey findings. The survey involved thirty-four (34) inspector-hours on site by one USNRC inspector.

Results: See Details Section paragraph G. for six (6) identified follow-up items.

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DETAILS SECTION

(Prepared by D. G. Anderson)

A. Persons Contacted

- \*R. Beckwith, Assistant Director of Inspections
- P. D. Brown, Laboratory Manager
- \*W. L. Garvin, Assistant Executive Director
- \*S. F. Harrison, Executive Director
- H. F. Jackson, Training Consultant
- \*D. J. McDonald, Director of Inspections
- \*H. D. Ray, Technical Assistant
- \*J. M. Webster, Educational Administrator

\*Indicates attendance at the exit meeting.

B. Action on Previous Survey Findings

(Closed) Follow-up Items (Report No. 78-01): The following items were addressed as follow-up items during the previous survey:

- Item 1. The blank commission cards are now being maintained in a locked desk. The "Procedures for National Board Commissions-National Board Commission Renewals and Nuclear Endorsements" now contains a statement assigning the Secretary of Commissions the responsibility for security of the cards.
- Item 2. National Board management indicated that they feel that the responsibility for checking background information on experience and qualifications for inspectors seeking commissions rests with the AIA. They also indicated that the responsibility for security checks rests with the state jurisdictions.
- Item 3. Resumes for each training instructor are now being maintained in the National Board training files.
- Item 4. A system for controlling the National Board Procedures Manual which includes placing a controlling number in each manual is being implemented.
- Item 5. Procedure NB 8.1, Unannounced Visits and Investigations by National Board Representatives, which establishes a system for the control of complaints and includes follow-up,

investigations, findings, resolution, and action taken by National Board has been prepared and is being implemented.

Item 6. Inspection reports of USNRC/Components Sections for ASME shop inspections are now being forwarded to National Board.

C. Qualification, Experience and Training

The inspector reviewed the scope and frequency of training courses presented by the National Board with particular attention directed to the procedures used for the selection of attendees, the qualifications of the instructors in the program, and the content of the examinations given at the end of the course to determine whether the examination effectively covers the parameters of the course. The following implementing procedures were reviewed:

1. NB-7, National Board procedures for the National Board of Boiler and Pressure Vessel Inspectors Examination.
2. NB-T-1, Administration of National Board Training course in Fabrication, Non-destructive examination and inspection of Welded Pressure Vessels.
3. NB-T-2, Administration of National Board Training course on ASME Section III Quality Assurance Systems, Welding, Non-destructive Examination and Radiation Health Physics.

The inspector also reviewed the following:

1. Course Outline-National Board Training Course on Fabrication, Non-destructive examination and Inspection of Welded Pressure Vessels, August 14-25, 1978 and March 12-23, 1979.
2. Course Outline-The National Board Advanced Training Course on ASME Section III Quality Assurance System, Welding, Nondestructive Examination and Radiation Health Physics, October 8-17, 1978.
3. The qualifications and experience of all eleven (11) instructors in the March 12-23, 1979 training course.
4. The list of attendees at the March 12-23, 1979 training course.
5. Examinations and grading for ten (10) attendees in the advanced course, October 8-17, 1978 and the NDE course, August 14-25, 1979.

The inspector also attended the following sessions of the March 12-23, 1979 course which was being conducted during the dates of the inspection:

1. Radiation Sources and Radiographic Techniques.
2. Quality Assurance Manual and Program Requirements for Classes 1, 2, 3, MC and CS, NCA 4000.
3. Radiographic Interpretation: Industrial Radiography.

D. Investigations

The inspector reviewed the bases and criteria used in the reporting, investigation, follow-up and resolution of complaints to assure that the subjects of the investigations are identified, that documented procedures or guidelines are used in conducting investigations, that the content and objectivity of these reports are appropriate, that the reports reflect the thoroughness of the investigation and an adequate basis for recommended action, and that corrective action recommended by the investigator was implemented. The following implementing procedures were reviewed:

1. National Board Bylaws, Article II, Section 2.7.
2. NB-8, Administrative Procedure to be used by the National Board in the Investigation of Alleged ASME Code Violations.
3. NB-8.1, Unannounced Visits and Investigations by National Board Representatives.

The inspector reviewed four (4) investigations which are being conducted during 1979 to assure that the requirements of the procedures are being implemented.

E. Records

The inspector reviewed the following procedures to assure that data reports are checked, discrepancies noted and corrected, and duplicate records maintained in a separate and remote facility:

Processing of Data Reports, October 2, 1978.

NB-20, Duplicate Microfilm Retrieval.

The inspector noted that National Board uses the storage facilities of National Underground Storage, Inc., Boyers, Pennsylvania for duplicate records. At present, microfilm copies of registered data reports and National Board examinations are the only records maintained in duplicate storage. The National Board tested the retrieval

capability of the duplicate storage system on February 15, 1979 by requesting microfilm copy No. 2718. The reproduced copy arrived at National Board on February 22, 1979 and when checked against the original, it was found to be an accurate legible duplicate.

F. Test Control-National Board Testing Laboratory

1. Objectives

The objectives of this area of the survey were to verify that:

- a. Procedures have been established and are being implemented to control the testing activity.
- b. The responsibility and authority for the operation of the testing facility has been designated.
- c. Instrumentation used in testing activities is traceable to the National Bureau of Standards.
- d. Testing activities are audited on a periodic basis.
- e. Test results are documented and properly evaluated.
- f. Records of tests and maintenance to test equipment are being documented and maintained.

2. Method of Accomplishment

The preceding objectives were accomplished by an examination of:

- a. National Board Testing Laboratory Quality Control Manual, March 12, 1979, (Controlled Copy No. 1).
- b. NB-14, ASME Laboratory Certification Procedures.
- c. National Board Testing Laboratory Procedures.
- d. Letter of Authority and Responsibility dated March 12, 1979 which states in part, "The primary purpose of the National Board Testing Laboratory is for the testing of pressure relief devices in accordance with the requirements of the ASME Boiler and Pressure Vessel Code for capacity certification purposes."
- e. Test No. 3595s on March 21, 1979. The inspector witnessed the test of relief valves from Swendeman, Inc. The valves



were tested for shop review certification and were conducted in accordance with the provisions of ASME Code, Section I. Weights used in the deadweight tester had been calibrated by the Division of Weights and Measures of the Ohio Department of Agriculture which uses standards traceable to the National Bureau of Standards; Test No. 2498: Ametek, Test No. 2497: Ashcroft Digi-gauges using NBS standards Nos. 38130B and 39496D.

- f. Audit report of the National Board Safety Valve Laboratory dated March 13, 1979.
- g. Quarterly Preventative Maintenance Schedule-1st Quarter 1979.

G. Follow-up Items

The following items are addressed by the inspector as follow-up items and are presented here for the attention of the USNRC Review Committee:

1. There does not appear to be a system established for periodic retraining and reexamination of ANI's and ANIS's. National Board indicated that some thought had already been given to this item, but no firm commitments have been made as yet.
2. The only permanent records stored at the National Underground Storage facility are data reports and National Board examinations. The inspector suggested that a list of all records be prepared and a review be made of those that would be needed in the event of fire.
3. The National Board Testing Laboratory Quarterly Preventative Maintenance Schedule is a plexiglass wallboard and is erased after completion. The inspector suggested that the records be maintained in a more permanent manner.
4. The National Board Testing Laboratory procedures are not presently under the document control system.
5. The Laboratory Manual indicates that each page of documents be signed and dated. Each page of the manual is not signed and dated.
6. Section VI of the Laboratory Manual requires that for NB Testing Laboratory audits that the audit team be assigned by the Executive Director. Documentation of this assignment could not be retrieved. The procedure for audits does not address follow-up and corrective action as required by ANSI N45.2.12.

H. Exit Meeting

An exit meeting was conducted on March 23, 1979, at the conclusion of the survey, with management representatives of the National Board as indicated by an asterisk in Section A. above. The inspector commended National Board for the action taken on the follow-up items identified in Survey Report No. 99900617/78-01. The inspector discussed the results of this survey and the items identified in this report as follow-up items. The inspector stressed that the follow-up items were for the USNRC Review Committee and required no response or other action on the part of National Board.