

Vermont Yankee Nuclear Power Corporation

**1996 Form NIS-1 Owner's Summary Report
for
Inservice Inspections**

May 3, 1995 through November 2, 1996

Prepared by:

Shirley P. Long

Reviewed by:

Dennis C. Givon

Plant Inservice Inspection Coordinator

Approved by:

P.B. Cuth

Project Engineering Manager

FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS
As Required by the Provisions of the ASME Code Rules

1. Owner Vermont Yankee Nuclear Power Corporation, R.D. 5, Box 169, Ferry Road, Brattleboro VT 05351
(Name and Address of Owner)
2. Plant Vermont Yankee Nuclear Power Station, P.O. Box 157, Governor Hunt Road, Vernon, VT 05354-0157
(Name and Address of Plant)
3. Plant Unit 1 4. Owner Certificate of Authorization (if required) DPR-28
5. Commercial Service Date 11/30/72 6. National Board Number for Unit NONE
7. Components Inspected - SEE ATTACHED PAGES 2 THROUGH 18
8. Examination Dates 5/3/95 to 11/2/96 9. Inspection Interval from 9/1/93 to 8/31/2003
10. Applicable Editions of Section XI 1986 Addenda None
11. Abstract of Examinations Including a list of examinations and a statement concerning status of work required for current interval - SEE ATTACHED PAGES 2 THROUGH 18
12. Abstract of Conditions Noted - SEE ATTACHED PAGES 19 AND 20
13. Abstract of Corrective Measures Recommended and Taken - SEE ATTACHED PAGES 19 AND 20

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (If applicable) DPR-28 Expiration Date 3/21/2012

Date 27 Jan 19 97 Signed E. V. Lindamood
E. V. Lindamood, Director of Engineering

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Vermont and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts, have inspected the components described in this Owner's Report during the period May 3, 1995 to November 2, 1996 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature] Commissions VT-350
Inspector's Signature National Board, State, Province, and Endorsements

Date JAN 27, 1997

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Vermont Yankee Nuclear Power Corporation
Vermont Yankee Nuclear Power Station
Owner Certification: DPR-28
Commercial Service Date: 11/30/72

Components Inspected/Abstract of examinations
Sections 7 and 11

| <i>Code Category</i> | <i>Component ID</i> | <i>Exam Type</i> | <i>System</i> | <i>Drawing No.</i> | <i>Examination Results</i> |
|----------------------|---------------------|------------------|-------------------------|--------------------|----------------------------|
| B-A | AB | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | B1 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | CD | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | D-1 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | D-2 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | DE | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | E-1 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | E-2 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | EF | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | F-1 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | F-2 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | FG | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | G-1 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | G-2 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-A | GH | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |

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Sections 7 and 11**

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|----------------------|---------------------|-----------------------------|-------------------------|--------------------|----------------------------|
| B-D | N3A | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N3B | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N3C | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N3D | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N3A-IR | UT, Inner Radius | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N3B-IR | UT, Inner Radius | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N3C-IR | UT, Inner Radius | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N3D-IR | UT, Inner Radius | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N4A-IR | Nozzle bore UT (NUREG-0619) | Reactor Pressure Vessel | ISI-RPV-103 | Accepted - NUREG-0619 |
| B-D | N4B-IR | Nozzle bore UT (NUREG-0619) | Reactor Pressure Vessel | ISI-RPV-103 | Accepted - NUREG-0619 |
| B-D | N4C-IR | Nozzle bore UT (NUREG-0619) | Reactor Pressure Vessel | ISI-RPV-103 | Accepted - NUREG-0619 |

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|----------------------|--|--------------------------------|-------------------------|--------------------|----------------------------|
| B-D | N4D-IR | Nozzle bore UT (NUREG-0619) | Reactor Pressure Vessel | ISI-RPV-103 | Accepted - NUREG-0619 |
| B-D | N5A | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-D | N5A-IR | UT, Inner Radius | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-F | CS4B-MF6A | PT, UT | Core Spray | ISI-5920-9206 | Accepted |
| B-F | SL11-F31 | PT | Standby Liquid Control | ISI-SLC-Part 4 | Accepted |
| B-G-1 | Reactor Pressure Vessel Nuts Nos. 1 through 44 | VT-1 | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Washer sets, Nos. 1 through 44 | VT-1 | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Bushing No. 15 | VT-1 with RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Bushing No. 16 | VT-1 with RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Bushing No. 17 | VT-1 with RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |

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Components Inspected/Abstract of examinations
Sections 7 and 11

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|----------------------|--|-------------------------------|-------------------------|--------------------|----------------------------|
| B-G-1 | Reactor Pressure Vessel Bushings No. 18 | VT-1 with RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Studs Nos. 1 through 44 | UT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | RPV Stud No. 15 | MT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | RPV Stud No. 16 | MT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | RPV Stud No. 17 | MT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | RPV Stud No. 18 | MT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Threads in Flange @ stud location No. 15 | UT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |

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|----------------------|--|---------------------------|---------------------------------|--------------------|----------------------------|
| B-G-1 | Reactor Pressure Vessel Threads in Flange @ stud location No. 16 | UT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Threads in Flange @ stud location No. 17 | UT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-1 | Reactor Pressure Vessel Threads in Flange @ stud location No. 18 | UT RPV stud removed | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-G-2 | V14-13B | VT-1 | Core Spray | ISI-5920-9206 | Accepted |
| B-G-2 | V23-16 | VT-1 | High Pressure Coolant Injection | ISI-HPCI Part 2 | Accepted |
| B-G-2 | V2-80A | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | V2-80B | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | V2-80C | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | v2-86D | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | SV2-70A | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | SV2-70B | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | RV2-71A | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |

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|----------------------|---------------------|------------------|-----------------------|--------------------|----------------------------|
| B-G-2 | RV2-71B | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | RV2-71C | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | RV2-71D | VT-1 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-G-2 | V10-25A | VT-1 | Residual Heat Removal | | Accepted |
| B-J | CS4B-MF5B | PT, UT | Core Spray | ISI-5920-9206 | Accepted |
| B-J | CS4B-F3ADW | PT, UT | Core Spray | ISI-5920-9206 | Accepted |
| B-J | CS4B-F1A | PT, UT | Core Spray | ISI-5920-9206 | Accepted |
| B-J | CS4B-MF5 | PT, UT | Core Spray | ISI-5920-9206 | Accepted |
| B-J | MS5A-F1 | MT (3" dia.) | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS5A-F1A | MT (3" dia.) | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-N3A-SW | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-N3B-SW | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-N3C-SW | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-N3D-SW | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-A7A | MT, UT | Main Steam | ISI-RPV-105 | Accepted |

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|----------------------|---------------------|------------------|-----------------------|--------------------|----------------------------|
| B-J | MS7A-A7B | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-A7C | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-A7D | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7A-A8 | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7B-B5B | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7B-B7A | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7B-B7B | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7B-B7C | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7B-B8 | MT, UT | Main Steam | ISI-RPV-105 | Accepted |
| B-J | MS7C-C8 | MT, UT | Main Steam | ISI-RPV-105 | Accepted - Geometry |
| B-J | MS7D-D8 | MT, UT | Main Steam | ISI-RPV-105 | Accepted - Geometry |
| B-J | RR-WA-28 | PT, UT | Recirculation | ISI-5920-6622 | Accepted |
| B-J | RR-WA-110 | PT (2" dia.) | Recirculation | ISI-5920-6622 | Accepted |
| B-J | CU19-F2 | PT (2" dia.) | Reactor Water Cleanup | ISI-5920-6622 | Accepted |
| B-J | CU19-F4 | PT (2" dia.) | Reactor Water Cleanup | ISI-5920-6622 | Accepted |

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|----------------------|---------------------|------------------|---------------------------------|--------------------|---|
| B-J | CU19-F5 | PT (2" dia.) | Reactor Water Cleanup | ISI-5920-6622 | Accepted |
| B-J | CU19-FW1 | PT (2" dia.) | Reactor Water Cleanup | ISI-5920-6622 | Accepted |
| B-J | CU19-FW2 | PT (2" dia.) | Reactor Water Cleanup | ISI-5920-6622 | Accepted |
| B-J | CU19-FW3 | PT (2" dia.) | Reactor Water Cleanup | ISI-5920-6622 | Accepted |
| B-J | N11B-SE | PT (3" dia.) | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |
| B-J | SL11-F9E | PT (1.5" dia.) | Standby Liquid Control | ISI-SLC-Part 4 | Accepted |
| B-J | SL11-F9F | PT (1.5" dia.) | Standby Liquid Control | ISI-SLC-Part 4 | Accepted |
| B-K | RR-65, 66 | PT | Reactor Recirculation | ISI-5920-6802 | Accepted |
| B-K | RR-89, 90 | PT | Reactor Recirculation | ISI-5920-6802 | Accepted |
| B-K | 90 Deg. RPV Bracket | PT | Reactor Pressure Vessel | ISI-RPV-103 | Accepted - Acceptable indication recorded |
| B-M-2 | V14-13B | VT-3 | Core Spray | ISI-5920-9206 | Accepted |
| B-M-2 | V23-16 | VT-3 | High Pressure Coolant Injection | ISI-HPCI Part 2 | Accepted |
| B-M-2 | V2-80A | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | V2-80B | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | V2-80C | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |

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|----------------------|---------------------------------|------------------|-------------------------|--------------------|----------------------------|
| B-M-2 | V2-86D | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | SV2-70A | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | SV2-70B | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | RV2-71A | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | RV2-71B | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | RV2-71C | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | RV2-71D | VT-3 | Nuclear Boiler | ISI-RPV-105 | Accepted |
| B-M-2 | V10-25A | VT-3 | Residual Heat Removal | | Accepted |
| B-N-1 | RPV Interior | VT-3 | RPV | ISI-RPV-103 | Accepted |
| B-N-2 | RPV ID Beltline Attachments | VT-1 | RPV | ISI-RPV-103 | Accepted |
| B-N-2 | RPV ID Non-beltline Attachments | VT-3 | RPV | ISI-RPV-103 | Accepted |
| B-N-2 | RPV Core Support Structure | VT-3 | RPV | ISI-RPV-103 | Accepted |
| B-N-2 | Core Shroud Repair Hardware | VT-3 | Reactor Pressure Vessel | ISI-RPV-103 | Accepted |

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|----------------------|---------------------|------------------|-----------------------|--------------------|--|
| B-O | 26-03HF | UT | Control Rod Drive | ISI-RPV-104 | Accepted |
| B-O | 34-39HF | UT | Control Rod Drive | ISI-RPV-104 | Accepted |
| C-B | A-N3 | MT | Residual Heat Removal | ISI-RPV-104 | Accepted |
| C-C | A-RHR-CC-1 | MT | Residual Heat Removal | ISI-RPV-104 | Accepted |
| C-C | A-RHR-CC-2 | MT | Residual Heat Removal | ISI-RPV-104 | Accepted |
| C-C | A-RHR-CC-4 | MT | Residual Heat Removal | ISI-RPV-104 | Accepted |
| C-C | H-204 | MT | Atmospheric Control | ISI-5920-9200 | Accepted |
| C-C | HD-89 | PT | Core Spray | ISI-5920-9211 | Accepted - Examined as part of sample expansion for HD-25 reject |
| C-C | HD-25 | PT | Residual Heat Removal | ISI-RHR-Part 16 | Accepted - corrective action taken. See sections 12 and 13 |
| C-C | HD-8 | MT | Residual Heat Removal | ISI-RHR-Part 16 | Accepted - Examined as part of sample expansion for HD-25 reject |
| C-C | HD-127E | MT | Residual Heat Removal | ISI-5920-9285 | Accepted |
| C-C | H-197A & B | MT | Residual Heat Removal | ISI-RHR Part 11 | Accepted |

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|----------------------|---------------------|------------------|-----------------------------|--------------------|---|
| C-F-2 | SG15-S92 | MT, UT | Atmospheric Control | ISI-5920-9201 | Accepted - geometry |
| C-F-2 | CT4-S25 | MT, UT | Condensate Storage Transfer | ISI-5920-9209 | Accepted - Geomet |
| C-F-2 | CS1A-S15 | MT, UT | Core Spray | ISI-5920-9209 | Accepted - Geometry |
| C-F-2 | CS3B-S113 | MT, UT | Core Spray | ISI-5920-9206 | Accepted - Geometry |
| C-F-2 | FW16-S1 | MT, UT | Feedwater | ISI-FDW-Part 5 | Accepted - Geometry - PSI exam |
| C-F-2 | FW16-S1A | MT, UT | Feedwater | ISI-FDW-Part 5 | Accepted - Geometry - PSI exam |
| C-F-2 | FW17-S5 | MT, UT | Feedwater | ISI-FDW-Part 5 | Accepted - Geometry - PSI exam |
| C-F-2 | FW17-S5A | MT, UT | Feedwater | ISI-FDW-Part 5 | Accepted - Geometry - PSI exam - corrective action taken. See sections 12 and 13 |
| C-F-2 | RH1A-S28 | MT, UT | Residual Heat Removal | ISI-5920-9284 | Accepted |
| C-F-2 | RH1C-S31 | MT, UT | Residual Heat Removal | ISI-5920-9284 | Accepted |
| C-F-2 | RH2A-S70 | MT, UT | Residual Heat Removal | ISI-5920-9284 | Accepted - Geometry |
| C-F-2 | RH2C-S91 | MT, UT | Residual Heat Removal | ISI-5920-9284 | Accepted - Geometry |

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|----------------------|---------------------|------------------|-----------------------|--------------------|----------------------------|
| C-F-2 | RH2C-S93 | MT, UT | Residual Heat Removal | ISI-5920-9284 | Accepted |
| C-F | RH3A-S137 | MT, UT | Residual Heat Removal | ISI-RHR-Part 11 | Accepted - Geometry |
| C-F-2 | RH3C-S147 | MT, UT | Residual Heat Removal | ISI-RHR-Part 11 | Accepted |
| D-A | RSW-H164 | VT-1 | Service Water | ISI-SW-Part 1 | Accepted |
| D-A | RSW-H217 | VT-1 | Service Water | ISI-SW-Part 2 | Accepted |
| C-F, augmented | RH21-T382A | MT, UT | Residual Heat Removal | ISI-5920-9207 | Accepted |
| C-F, augmented | RH23-S343 | MT, UT | Residual Heat Removal | ISI-5920-9212 | Accepted |
| C-F, augmented | RH39-S427 | MT, UT | Residual Heat Removal | ISI-5920-9305 | Accepted |
| C-F, augmented | RH39-S428 | MT, UT | Residual Heat Removal | ISI-5920-9305 | Accepted - Geometry |
| C-F, augmented | RH39-S429 | MT, UT | Residual Heat Removal | ISI-5920-9305 | Accepted |
| C-F, augmented | RH39-S430 | MT, UT | Residual Heat Removal | ISI-5920-9305 | Accepted - Geometry |
| C-F, augmented | RH39-S431 | MT, UT | Residual Heat Removal | ISI-5920-9305 | Accepted - Geometry |
| C-F, augmented | RH39-S432 | MT, UT | Residual Heat Removal | ISI-5920-9305 | Accepted - Geometry |
| Class 2, augmented | MS1C-F9 | MT, UT | Main Steam | G-191156 | Accepted - Geometry |
| Class 2, augmented | MS2C-F1 | MT, UT | Main Steam | G-191156 | Accepted - Geometry |

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS
As Required by the Provisions of the ASME Code rules

Vermont Yankee Nuclear Power Corporation
Vermont Yankee Nuclear Power Station
Owner Certification: DPR-28
Commercial Service Date: 11/30/72

Components Inspected Abstract of examinations
Sections 7 and 11

| <i>Code Category</i> | <i>Component ID</i> | <i>Exam Type</i> | <i>System</i> | <i>Drawing No.</i> | <i>Examination Results</i> |
|----------------------------------|---------------------|------------------|-----------------------|--------------------|----------------------------|
| Class 3 augmented, NUREG-0313 | 54-09 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-10 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-19 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-20 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-21 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-22 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-23 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-23A | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted - Geometry |
| Class 3 augmented, NUREG-0313 | 54-32 | PT,UT | Reactor Water Cleanup | WM-70105-300 | Accepted |
| F-A | H-204 | VT-3 | Atmospheric Control | ISI-5920-9200 | Accepted |

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS
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Vermont Yankee Nuclear Power Corporation
Vermont Yankee Nuclear Power Station
Owner Certification: DPR-28
Commercial Service Date: 11/30/72

Components Inspected/Abstract of examinations
Sections 7 and 11

| <i>Code Category</i> | <i>Component ID</i> | <i>Exam Type</i> | <i>System</i> | <i>Drawing No.</i> | <i>Examination Results</i> |
|----------------------|---------------------|------------------|---------------------------------|--------------------|---|
| F-A | HD-57D | VT-3 | Core Spray | ISI-5920-9209 | Accepted |
| F-A | P-46-1A | VT-3 | Core Spray | ISI-5920-9211 | Accepted |
| F-A | HD-127E | VT-3 | Residual Heat Removal | ISI-5920-9285 | Accepted - Corrective action taken. See sections 12 and 13. |
| F-A | HD-127D | VT-3 | Residual Heat Removal | ISI-5920-9285 | Accepted -Examined as part of expansion sample for HD-127E reject |
| F-A | HD-127F | VT-3 | Residual Heat Removal | ISI-5920-9285 | Accepted -Examined as part of expansion sample for HD-127E reject |
| F-A | HD-127I | VT-3 | Residual Heat Removal | ISI-5920-9285 | Accepted -Examined as part of expansion sample for HD-127E reject |
| F-A | P-10-1A | VT-3 | Residual Heat Removal | ISI-RHR Part 11 | Accepted |
| F-A | FW-15 | VT-3 | Feedwater | ISI-FDW-Part 5A | Accepted |
| F-A | FW-16 | VT-3 | Feedwater | ISI-FDW-Part 5A | Accepted |
| F-A | FW-20 | VT-3 | Feedwater | ISI-FDW-Part 5A | Accepted |
| F-A | HPCI-1 | VT-3 | High Pressure Coolant Injection | ISI-HPCI-Part 2 | Accepted |

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS
As Required by the Provisions of the ASME Code rules

Vermont Yankee Nuclear Power Corporation
Vermont Yankee Nuclear Power Station
Owner Certification: DPR-28
Commercial Service Date: 11/30/72

Components Inspected/Abstract of examinations
Sections 7 and 11

| <i>Code Category</i> | <i>Component ID</i> | <i>Exam Type</i> | <i>System</i> | <i>Drawing No.</i> | <i>Examination Results</i> |
|---------------------------------|---------------------|------------------|---------------------------------|--------------------|---|
| F-A | HPCI-2 | VT-3 | High Pressure Coolant Injection | ISI-HPCI-Part 2 | Accepted |
| F-A | HD-42 | VT-3 | Core Spray | ISI-5920-9206 | Accepted - Examined due to removal for collateral work - PSI exam |
| F-A | HD-130B | VT-3 | Residual Heat Removal | ISI-RHR-Part 11 | Accepted - Examined due to removal for collateral work - PSI exam |
| F-Augmented - Class 2 thin wall | HD-18R | VT-3 | Residual Heat Removal | ISI-5920-9305 | Accepted - Examined due to removal for collateral work - PSI exam |
| F-Augmented - Class 2 thin wall | HD-3 | VT-3 | Residual Heat Removal | ISI-RHR-Part 16 | Accepted |
| F-Augmented - Class 2 thin wall | HD-4 | VT-3 | Residual Heat Removal | ISI-RHR-Part 16 | Accepted |
| F-Augmented - Class 2 thin wall | HD-18 | VT-3 | Residual Heat Removal | ISI-5920-9305 | Accepted |
| F-Augmented - Class 2 thin wall | HD-18A | VT-3 | Residual Heat Removal | ISI-5920-9305 | Accepted |

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS

As Required by the Provisions of the ASME Code rules

Vermont Yankee Nuclear Power Corporation

Vermont Yankee Nuclear Power Station

Owner Certification: DPR-28

Commercial Service Date: 11/30/72

**Components Inspected/Abstract of examinations
Sections 7 and 11**

| <i>Code Category</i> | Quantity Inspected 1996 Outage | Quantity Previously Inspected, Third Interval | Quantity Scheduled, Third Interval | Percent of Third Interval Complete |
|----------------------|-----------------------------------|---|--|---------------------------------------|
| B-A | 15 | 0 | 16 | 94% |
| B-D | 14 | 9 | 29 | 79% |
| B-F | 2 | 11 | 35 | 37% |
| B-G-1 | 44 | 0 | 81 | 54% |
| B-G-2 | 13 | 31 | 109 | 40% |
| B-J | 33 | 38 | 134 | 53% |
| B-K | 3 | 0 | 5 | 60% |
| B-L-2 | 0 | 0 | Per approved Relief Request No. B-1 | N/A |
| B-M-2 | 13 | 5 | Per approved Relief Request No. B-2 | N/A |
| B-N-1 | 1 | 1 | Each Period | N/A |
| B-N-2 | Partial | Partial | 1 | N/A |

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS**As Required by the Provisions of the ASME Code rules****Vermont Yankee Nuclear Power Corporation****Vermont Yankee Nuclear Power Station****Owner Certification: DPR-28****Commercial Service Date: 11/30/72****Components Inspected/Abstract of examinations
Sections 7 and 11**

| <i>Code Category</i> | Quantity Inspected 1996 Outage | Quantity Previously Inspected, Third Interval | Quantity Scheduled, Third Interval | Percent of Third Interval Complete |
|-----------------------------------|-----------------------------------|---|---------------------------------------|---------------------------------------|
| B-O | 2 | 2 | 7 | 57% |
| C-A | 0 | 1 | 4 | 25% |
| C-B | 1 | 0 | 4 | 25% |
| C-C | 8 | 5 | 14 | 93% |
| C-F-2 | 15 | 21 | 67 | 54% |
| D-A | 2 | 15 | 11 | 57% |
| F-A | 15 | 48 | 121 | 52% |
| F-Augmented, Class 2 thin wall | 5 | 0 | 18 | 28% |

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS**: Required by the Provisions of the ASME Code rules****Vermont Yankee Nuclear Power Corporation****Vermont Yankee Nuclear Power Station****Owner Certification: DPR-28****Commercial Service Date: 11/30/72****ABSTRACT OF CONDITIONS NOTED/CORRECTIVE MEASURES TAKEN**

Sections 12 and 13

| Code Category | Item Identification | Conditions noted and corrective measures taken |
|---------------|------------------------------|---|
| B-A | RPV weld EF | Ultrasonic examination of RPV weld EF resulted in one indication that was not acceptable in accordance with ASME Section XI, IWB-3500 acceptance standards. The indication is located in plate 1-15 below the circumferential weld which joins plates 1-12 and 1-15. The indication is outside of the core region. In accordance with ASME Section XI, IWB-3600, this indication is acceptable for continued service. The evaluation is contained in Calculation Package YAEC-25Q-301 performed by Structural Integrity Associates, Inc. |
| B-N-2 | RPV Core Shroud | During the 1995 outage at Vermont Yankee, cracking was identified in the RPV Core Shroud. In accordance with Generic Letter 94-03, tie rods were installed on the Core Shroud to provide propagation mitigation and structural enhancement. |
| C-C | HD-25 Integral Attachment | During surface examination of HD-25, indications were found that were related to original construction welding anomalies. These indications were of a nature that an acceptable surface preparation was not possible. The integral attachment surface examination was rejected and Sub Work Order 95-10153-04 was generated to perform the repair. After repair an acceptable surface examination was performed. Scope expansion was performed to include integral attachments RHR-HD8 and CS-HD89. The scope expansion examinations were acceptable. |

FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS
As Required by the Provisions of the ASME Code rules

Vermont Yankee Nuclear Power Corporation
Vermont Yankee Nuclear Power Station
Owner Certification: DPR-28
Commercial Service Date: 11/30/72

ABSTRACT OF CONDITIONS NOTED/CORRECTIVE MEASURES TAKEN
Sections 12 and 13

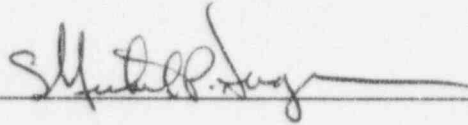
| Code Category | Item Identification | Conditions noted and corrective measures taken |
|---------------|--|--|
| C-F-2 | FW17-S5A Circumferential Piping Weld | Weld FW17-S5A was fabricated as a result of replacement of Feedwater check valve V2-27B. During Preservice surface examination, linear indications were found in the pipe base material. These indications were laps associated with the pipe fabrication process. The indications were removed by flapper wheel and an acceptable surface examination was performed. |
| F-A | HD-127E Spring Hanger | During VT-3 examination of HD-127E, the spring setting was found to be out of tolerance. Work Order 96-06009-00 was generated to reset the spring setting to the proper load. An acceptable VT-3 was performed after corrective action to verify the proper setting. Scope expansion was performed to include supports RHR-HD-127D, RHR-HD-127F and RHR-HD-127I. The scope expansion examinations were acceptable. |

Vermont Yankee Nuclear Power Corporation

**1996 Form NIS-2 Owner's Summary Report
for
Repairs or Replacements**

May 3, 1995 through November 2, 1996

Prepared by:



Reviewed by:



Plant Inservice Inspection Coordinator

Approved by:



Project Engineering Manager

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Vermont Yankee Nuclear Power Corporation Date 11/2/1996
Name
R.D. 5, Box 169, Ferry Road, Brattleboro VT 05351 Sheet 1 of 9
Address
2. Plant Vermont Yankee Nuclear Power Station Unit 1
Name
P.O. Box 157, Governor Hunt Road, Vernon, VT 05354-0157 Address
3. Work Performed by Vermont Yankee Nuclear Power Corporation
Name
R.D. 5, Box 169, Ferry Road, Brattleboro VT 05351 Address
- Type Code Symbol Stamp No Code Symbol Stamp Required.
Authorization No. N/A
Expiration Date N/A
4. Identification of System See the attached table.
5. (a) Applicable Construction Code B.31.1 1967 Edition, No Addenda, No Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1986 Edition No Addenda
6. Identification of Components Repaired or Replaced and Replacement Components See the attached table pages 3 through 9.
7. Description of Work See the attached table.
8. Test Conducted See the attached table.
9. Remarks See the attached table.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and these repairs/replacements conform to the rules of the ASME Code, Section XI.

Signed



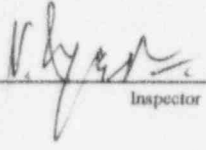
E. V. Lindamood, Director of Engineering

Date 27 Jan 19 97

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Vermont and employed by Arkwright Mutual Insurance Company of Waltham, Massachusetts, have inspected the components described in this Owner's Data Report during the period May 6, 1995 to November 2, 1996 and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Signed 
Inspector

Date JAN 27, 1997

Commissions VT-350
National Board, State, Province, and Endorsements

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code, Section XI, 1986 Edition, No Addenda

Vermont Yankee Nuclear Power Plant Unit 1
P.O Box 157, Vernon, VT, 05354

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Identification | Name of Manufacturer | Manufacturer Serial Number | National Board Number | Other Identification (Work Order No.) | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped | Description of Work | Test Conducted |
|-------------------|-----------------------|----------------------|----------------------------|-----------------------|---------------------------------------|------------|------------------------------------|-------------------|---------------------------|--------------------|
| V2-27B | FW | Walworth | N/A | N/A | 95-10395-00 | 1969 | Replaced | No | Replaced Valve | System hydrostatic |
| V2-96B | FW | Walworth | N/A | N/A | 95-10396-00 | 1969 | Replaced | No | Replaced valve | System hydrostatic |
| V2-80A | MS | Rockwell | N/A | N/A | 96-10336-08 | 1969 | Repaired | No | Repaired seats and guides | System leakage |
| V2-80B | MS | Rockwell | N/A | N/A | 96-08428-00 | 1969 | Repaired | No | Repaired seats and guides | System leakage |
| V2-86A | MS | Rockwell | N/A | N/A | 96-09243-00 | 1969 | Repaired | No | Repaired valve seat | System leakage |
| V2-86D | MS | Rockwell | N/A | N/A | 96-10305-00 | 1969 | Repaired | No | Repaired valve seat | System leakage |
| V10-39A | RHR | Walworth | N/A | N/A | 95-10386-30 | 1969 | Repaired | No | Modified wedge guides | System leakage |
| V10-34A | RHR | Walworth | N/A | N/A | 96-09738-00 | 1969 | Repaired | No | Repaired valve seat | System leakage |

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code, Section XI, 1986 Edition, No Addenda

Vermont Yankee Nuclear Power Plant Unit 1
P.O Box 157, Vernon, VT, 05354

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Identification | Name of Manufacturer | Manufacturer Serial Number | National Board Number | Other Identification (Work Order No.) | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped | Description of Work | Test Conducted |
|-------------------|-----------------------|----------------------|----------------------------|-----------------------|---------------------------------------|------------|------------------------------------|-------------------|-------------------------------|----------------|
| V11-12B | SLC | Powell | N/A | N/A | 95-04999-00 | 1969 | Repaired | No | Valve body bonnet face lapped | System leakage |
| V13-16 | RCIC | Walworth | N/A | N/A | 95-10386-26 | 1969 | Repaired | No | Repaired valve seat | System leakage |
| V14-13A | CS | Rockwell | N/A | N/A | 96-09510-00 | 1969 | Repaired | No | Replaced disk pin | System leakage |
| V14-5A | CS | Walworth | 3525345285 | N/A | 94-09933-00 | 1969 | Repaired | No | Repaired valve guides | System leakage |
| V19-13A | FPC | Walworth | N/A | N/A | 96-06990-00 | 1969 | Replacement | No | Replaced disk | System leakage |
| V23-14 | HPCI | Walworth | N/A | N/A | 95-10386-55 | 1969 | Repaired | No | Installed bonnet vent line | System leakage |

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code, Section XI, 1986 Edition, No Addenda

Vermont Yankee Nuclear Power Plant Unit 1
P.O Box 157, Vernon, VT, 05354

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Identification | Name of Manufacturer | Manufacturer Serial Number | National Board Number | Other Identification (Work Order No.) | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped | Description of Work | Test Conducted |
|-------------------|-----------------------|----------------------|----------------------------|-----------------------|---------------------------------------|------------|------------------------------------|-------------------|---|--------------------|
| V23-20 | HPCI | Walworth | N/A | N/A | 95-10386-24 | 1969 | Repaired | No | Repaired seat, replaced stem, drilled wedge to prevent thermal lock | System leakage |
| V70-1B | SW | Walworth | N/A | N/A | 96-06006-00 | 1969 | Repaired | No | Performed weld buildup of hinge pin bores | System leakage |
| V70-7E | SW | Rex Chain Belt | N/A | N/A | 95-06784-00 | 1969 | Replaced | No | Valve replaced | System hydrostatic |
| V70-130A | SW | Velan | N/A | N/A | 95-05082-00 | 1969 | Replaced | No | Valve replaced | System hydrostatic |
| V78-2 | FO | Walworth | N/A | N/A | 94-12591-00 | 1969 | Repaired | No | Installed new disc | System leakage |

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As Required by the Provisions of the ASME Code, Section XI, 1986 Edition, No Addenda

Vermont Yankee Nuclear Power Plant Unit 1
P.O. Box 157, Vernon, VT, 05354

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Identification | Name of Manufacturer | Manufacturer Serial Number | National Board Number | Other Identification (Work Order No.) | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped | Description of Work | Test Conducted |
|-------------------|-----------------------|----------------------|----------------------------|-----------------------|---------------------------------------|------------|------------------------------------|-------------------|---|------------------|
| RV-2-71A | NB | Target Rock | N/A | N/A | 96-01882-00 | 1969 | Replaced | No | Replaced valve as part of Main Steam relief valve replace and rebuild program | System Inservice |
| RV-2-71B | NB | Target Rock | N/A | N/A | 96-01881-00 | 1969 | Replaced | No | Replaced valve as part of Main Steam relief valve replace and rebuild program | System Inservice |
| RV-2-71C | NB | Target Rock | N/A | N/A | 96-01880-00 | 1969 | Replaced | No | Replaced valve as part of Main Steam relief valve replace and rebuild program | System Inservice |

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Vermont Yankee Nuclear Power Plant Unit 1
P.O Box 157, Vernon, VT, 05354

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Identification | Name of Manufacturer | Manufacturer Serial Number | National Board Number | Other Identification (Work Order No.) | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped | Description of Work | Test Conducted |
|-------------------|-----------------------|----------------------|----------------------------|-----------------------|---------------------------------------|------------|------------------------------------|-------------------|---|------------------|
| RV-2-71D | NB | Target Rock | N/A | N/A | 96-01879-00 | 1969 | Replaced | No | Replaced valve as part of Main Steam relief valve replace and rebuild program | System Inservice |
| SV-2-70A | NB | Dresser | BL1134 | N/A | 96-01883-00 | 1969 | Replaced | No | Replaced valve as part of Main Steam relief valve replace and rebuild program | System Inservice |
| SV-2-70B | NB | Dresser | BL1137 | N/A | 96-01884-00 | 1969 | Replaced | No | Replaced valve as part of Main Steam relief valve replace and rebuild program | System Inservice |

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As Required by the Provisions of the ASME Code, Section XI, 1986 Edition, No Addenda

Vermont Yankee Nuclear Power Plant Unit 1
P.O Box 157, Vernon, VT, 05354

Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Identification | Name of Manufacturer | Manufacturer Serial Number | National Board Number | Other Identification (Work Order No.) | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped | Description of Work | Test Conducted |
|-------------------|-----------------------|----------------------|----------------------------|-----------------------|---------------------------------------|------------|------------------------------------|-------------------|---|--------------------|
| S-11-14A | NB | Conax | N/A | N/A | 96-01887-00 | 1969 | Replaced | No | Replaced valve as part of squib valve replacement program | System Inservice |
| S-11-14B | NB | Conax | N/A | N/A | 96-01888-00 | 1969 | Replaced | No | Replaced valve as part of squib valve replacement program | System Inservice |
| 8"SW-18B | SW | N/A | N/A | N/A | 96-06369-02 | 1969 | Replaced | No | Replaced section of pipe due to corrosion leak | System hydrostatic |
| 12"SW-4A | SW | N/A | N/A | N/A | 96-09254-00 | 1969 | Replaced | No | Replaced section of pipe due to corrosion leak | System hydrostatic |

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Construction Code B31.1, 1967 Edition, No Addenda, No Code Case

| Name of Component | System Identification | Name of Manufacturer | Manufacturer Serial Number | National Board Number | Other Identification (Work Order No.) | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped | Description of Work | Test Conducted |
|-------------------|-----------------------|----------------------|----------------------------|-----------------------|---------------------------------------|------------|------------------------------------|-------------------|--------------------------------|----------------|
| RPV Core Shroud | NB | General Electric/CBI | N/A | N/A | 95-10371-00 | 1969 | Repaired | No | Installed Core Shroud tie rods | VT-3 |