## INSERVICE INSPECTION SUMMARY REPORT

FOR

MAINE YANKEE ATOMIC POWER COMPANY
AUGUSTA, MAINE

GENERATING PLANT: Maine Yankee Atomic Power Plant

Wiscasset, Maine

UNIT DESIGNATION NUMBER: Reactor Vessel 20865

COMMERCIAL OPERATING DATE: 12/29/72

EXAMINATION DATES FROM 01/12/89 to 07/02/90 IN THE SECOND TEN YEAR INTERVAL.

COMPLETION DATE:	07/02/90
teter Men	lhom
Peter Mehlho	
ibi coordina	\(\frac{1}{2}\)
William	Schule
William Schu	
Performance	Engineering Supervisor

James Hebert Manager, Plant Engineering

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## PREFACE

This report summarizes the preservice and inservice inspections and pressure tests that were performed at Maine Yankee Atomic Power Plant between January 12, 1939 and July 2, 1990 that fall within the scope of Section XI of the ASME Boiler and Pressure Vessel Code and the Maine Yankee Inservice Inspection program. The end of the third inspection period of the second ten year inspection interval is August 19, 1992. This completes approximately 50% of the examination for the third period. The 10 year Reactor Vessel examinations have been completed and are included in this report.

The Authorized Nuclear Inservice Inspector on-site to witness the inspections was Mr. William Nicholas of Factory Mutual Engineering.

# FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

- 1. Owner Maine Yankee Atomic Power Company, Augusta, Maine (Name and Address of Owner)
- 2. Plant <u>Maine Yankee Atomic Power Plant, Wiscasset, Maine</u>
  (Name and Address of Owner)
- 3. Plant Unit \_\_\_\_\_ 1 \_\_\_\_ 4. Owner Certificate of Authorization (if required) \_\_\_\_ DPR-36
- 5. Commercial Service Date 12/29/72 6. National Board for Unit Reactor Vessel 20865
- 7. Components Inspected

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor	C.E.	67206	NA	20865
St. Gen. #1	C.E.	67501	NA	20919
St. Gen. #2	C.E.	67502	NA	20920
St. Gen. #3	C.E.	67503	NA	20921
Pressurizer	C.E.	67601	NA	20858
Piping	Stone & Webster	АИ	NA	NA

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (E00029) may be obtained from the Order Dept, ASME, 345 E. 47th St., New York, N.Y. 1001

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## FORM NIS-1 (back)

- Examination Dates 01/12/89 to 07/02/90 9. Inspection Interval from 12/29/82 to 12/29/92.
- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. See pages 4 through 3 and Preface.
- 11. Abstract of Conditions Noted See pages 9 through 13.
- 12. Abstract of Corrective Measures Recommended and Taken See pages 9 through 13.

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.

Date 9-13 1990 signed Maine Yankee By Hell Mikhom
Owner

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

## CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National heard of Boiler and Pressure Vessel Inspectors and/or the State or Province of Market and employed by Factory Mulual East, of Norweal Market inspected the components described in this Owners' Data Report during the period 01/12/89 to 07/02/90, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, XI.

By signing this certificate neither the Inspect his employer makes any warranty, expressed or implied, concerning the corrective measure described in this Owners' Data Position and the inspector nor his employer shall be liated any person injury or property damage or a loss of any connected with this inspection.

Date 9-13 1990

10 37 Informations Commissions Na

National Board, State, Province and No.

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1.	OWNER: Maine Y	inkee Atomic Power Company, Augusta, Maine	-
*	PLANT: Maine Y	ankee Atomic Power Plant, Wiscasset, Maine	
	PLANT UNIT: 1		PR-36
6.	NATIONAL BOARD NUMB	PER FOR UNIT: Reactor Vessel 20865	
10.	ABSTRACT OF EXAMINA	ATIONS:	
CATE	GCRY ITEM	NUMBER EXAMINED	METHOD
B-A	B1.11	1-Upper Shell-to-Int. Shell Weld	UT
	B1.12	1-Longitudinal Weld @ 90° Lower Shell	UT
	B1.21	1-Lower Head Circumferential Weld	UT
	B1.22	1-Lower Head Meridional Weld	UT
	B1.30	1-Flange-to-Upper Shell Weld -50% from Flange Face	UT
	B1.40	-50% Closure Head-to-Flange Weld	UT, MT
B-B	B2.11	1-Upper Shell-to-Upper Head Weld	UT
	B2.12	2-Upper Shell Longitudinal Welds (12 inches of each)	UT
B-D	вз.90	6-Nozzle-to-Vessel Welds	UT
	вз.100	6-Nozzle Inside Radius Sections	UT
B-E	B4.20	Heater Peretrations	VT-2
B-F	85.21	1-3", Nozzle-to-Safe End Weld	PT
	B5.50	1-33 1/2", Disamilar Metal Pipe Weld	UT*
		1-33 1/2", Dissimilar Metal Pipe Weld	PT
		1-14", Dissimilar Metal Pipe Weld	UT*
		1-12", Dissimilar Metal Pipe Weld	UT*, PT
	*NOTE:	UT from carbon steel side only	
	B5.51	2-3", Dissimilar Motal Pipe Welds	PT
		1-2", Dissimilar Metal Pipe Welds	PT
B-G-	1 B6.30	27-Reactor Vessel Closure Head Studs (removed)	UT, MT
B-G-	·2 B7.30	120-Primary Manway Bolting, Steam Generators 1, 2, & 3	MT, VT-

7-Budy-to-Bonnet Valve Bolting (in place)

3-Body-to-Bounet Valve Bolting (removed)

VT-1

VT-1

MT, VT-1

1-Pipe Flange Bolting

B7.50

B7.70

.1.	OWNER:	Maine Yankee Atomic Sower Company, Augusta, Maine
2.	PLANT:	Maine Yankee Atomic Tower Plant, Wiscasset, Maine

3. PLANT UNIT: 1 4. OWNER CERTIFICATE OF AUTHORIZATION: DPR-36

5. COMMERCIAL . PUICE DATE: 12/29/72

6. NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel 20865

## 10. ABSTRACT OF EXAMINATIONS:

CATEGORY	ITEM	NUMBER EXAMINED	METHOD
B-J	B9.11	5-33 1/2", Circumferential Pipe Welds	UT, MT
		1-14", Circumferential Pipe Weld	UT, PT
		2-10" Circumferential Pipe Welds	UT, PT
		1-8", Circumferential Pipe Weld	RT, PT
		2-4", Circumferential Pipe Welds	UT, PT
	B9.21	5-3", Circumferentia. Pipe Welds	PT
в9.32	1-8", Branch Pipe Connection Weld	RT, PT	
	в9.32	1-2", Branch Pipe Connection Weld	PT
	B9.40	11-2", Socket Welds	PT
B-K-1	B10.10	5-Integral Attachments	PT
B-M-1	B12.31	1-Valve Body Weld	RT
B-M-2	B12.40	2-Valve Body internal	VT-3
B-N+1	B13.10	Reactor Vessel	VT-3
B-N-3	B13.30	Reactor Vessel Internals	VT-3

# COMMITTED REACTOR VESSEL THERMAL SHIELD INSPECTION

References: 1. Maine Yankee letter MN-84-89 to the NRC

dated May 17, 1984.

2. Maine Yankee letter MN-88-37 to the NRC dated April 5, 1988.

Maine Yankee conducted an underwater visual examination of the Maine Yankee reactor vessel thermal shield during the 1990 refueling outage as committed in the above references. The inspection included all of the twenty-six (26) positioning pins and nine (9) vertical support lugs as well as a general inspection of the thermal shield.

The thermal shield and its principle support structure components, including the three top replacement positioning pins installed in 1984, appeared to be undamaged and in satisfactory condition. The staking mechanism used to resecure the positioning pins that were tightened in 1984 failed. This allowed a number of the previously tightened lower positioning pins to back out. All of the lower positioning pins tightened in 1984 were retightened and restaked with an enhanced staking pin design.

1. OWNER:	Maine	Yankee Atomic Power Company, Augusta, Maine	
2. PLANT:	Maine	Yankee Atomic Power Plant, Wiscasset, Maine	
3. PLANT	UNIT: 1	4. OWNER CERTIFICATE OF AUTHORIZATION:	DPR-36
5. COMMER	CIAL SERVIC	E DATE: 12/29/72	
6. NATION	AL BOARD NU	MBER FOR UNIT: Reactor Vessel 20865	
10. ABSTRA	CT OF EXAMI	NATIONS:	
CATEGORY	ITEM	NUMBER EXAMINED	METHOD
в-Р	B15.00	Reactor Coolant System Leak Test	VT-2
	B15.71	1-2" Valve Weld	VT-2
B-Q	B16.00	Steam Generator #3 Tubing as required by Maine Yankee Tech. Spec. 4.10	ECT
		-514 Tubes, First Sample	
		-1029 Tubes, Second Sample	

## ADDITIONAL STEAM GENERATOR EDDY CURRENT EXAMS

Maine Yankee experienced some activity in secondary side samples just prior to the refueling outage. Therefore, during the outage each steam generator's tube bundle was leak tested, which indicated 3 suspect leaking tubes. As a result of this, Maine Yankee examined 100% of all accessible tube ends (34,047). The extent of exam was from approximately 2 inches above the tube sheet to 2 inches below the top of the tube sheet. All circumferential indications were also inspected using ultrasonic techniques. See pages 11 and 12 for results and corrective measures.

## F-A,B,&C F-1,2,3&4 Safety Class 1 Supports

32	Supports		VT-3
8	Supports		VT-364
2	Additional	exams as required by IWF-2430.*	VT-3
1	Additional	exam as required by IWF-2430.*	VT-364
	See Page 13	for details.	

1. OWNER	. Maine	Yankee Atomic Power Company, Augusta, Maine	
2. PLANT	" Maine	Yankee Atomic Power Plant, Wiscasset, Maire	
3. PLANT	UNIT: 1	4. OWNER CERTIFICATE OF AUTHORIZATION:	DPR-36
5. COMME	RCIAL SERVIC	E DATE:12/29/72	
6. NATIO	ONAL BOARD NU	MBER FOR UNIT: Reactor Vessel 20865	
10. ABSTE	RACT OF EXAMI	NATIONS:	
CATEGORY	ITEM	NUMBER EXAMINED	METHOD
C-A	C1.10	2-Shell Circumferential Welds Steam Generator 01	UT
C-3	C2.21	1-Nozzle-to-Shell Weld Steam Generator #2	UT, MT
		2-Nozzle-to-Shell Welds, Residual Heat Removal Heat Exchanger	UT, PT
	C2.22	1-Nozzle Inside Radius Section Steam Generator #2	UT
c-c	c3.10	2-Integral Attachment Welds, Steam Generator #2	мт
C-F	C5.11	3-14", Circumferential Pipe Welds	PT
		5-12", Circumferential Pipe Welds	PT
		14-10", Circumferential Pipe Welds	PT
		8-6", Circumferential Pipe Welds	PT
		1-6", Circumferential Pipe Welds	MT
	C5.21	2-14", Circumferential Pipe Welds	RT, MT
		5-14", Circumferential Pipe Welds	UT, MT
		1-10", Circumferential Pir Weld	UT, PT
С-Н	C7.00	Hydrostatic Pressure Tests	VT-2
	a. b. c. d. e. f. g. h.	Charging System High Pressure Safety Injection, 2 Hydros Containment Spray, 2 Hydros Nitrogen System Steam Generator Blowdown, 2 Hydros Residual Heat Removal Primary Component Cooling, 4 Hydros Main Steam Low Pressure Safety Injection Primary Water	

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1. OWNER:	Maine Y	ankee Atomic Power Company, Augusta, Maine	
2. PLANT:	Maine Y	ankee Atomic Power Plant, Wiscasset, Maine	
3. PLANT	UNIT: _1	4. OWNER CERTIFICATE OF AUTHORIZATION:D	PR-36
5. COMMER	CIAL SERVICE	DATE: 12/29/72	
6. NATION	AL BOARD NUM	BER FOR UNIT: Reactor Vessel 20865	
10. ABSTRA	CT OF EXAMIN	ATIONS:	
CATEGORY	ITEM	NUMBER EXAMINED	ASTHOD
F-A,B,GC	F-1,2,364	Safety Class 2 Supports	
		25 Supports	VT-3
		8 Supports	VT-364
		1 Additional exam as required by IWF-2430.*	VT-3
		3 Additional exams as required by TWF-2430.*	VT-3&4
		*See Page 13 for details.	

1. OWNER:	Kaine Y	nkee A	tomic	Power Company, Augusta, Maine	
2. PLANT:	Maine Ye	inkee A	tomic	Power Plant, Wiscasset, Maine	
3. PLANT UNIT:	1	. 4.	OWNER	CERTIFICATE OF AUGGORIZATION:	DPR-36
5. COMMERCIAL S	SERVICE	DATE:	_ 12/	29/72	
6. NATIONAL BOX	ARD NUME	BER FOR	UNIT:	Reactor Vessel 20865	
11. ABSTRACT OF	CONDITI	ONS NO	TED:		
12. ABSTRACT OF	CORRECT	TIVE ME	ASURES	RECOMMENDED AND TAKEN:	
CATEGORY	COND	TION			CORRECTIVE MEASURE
B-Q	Steam	n Gener	ator #	3 Tubing	
	Row	Line	% TWD	LOCATION	
Defective Tubes	23	36	62	6.3" Above Cold Tube Sheet	Plugged Tube
	35	36	67	6.4" Above C 16 Tube Sheet	Plugged Tube
	37	36	65	6.2" Above Cold Tube Sheet	Plugged Tube
	41	36	47	6.2" Above Cold Tube Sheet	Plugged Tube
					Additional exame were conducted per Maine Yankee Tech Spec. 4.10.
Degraded Tubes	1	118	31	0.7" Above Hot Tube Sheet	Additional exams
	23	22	38	4.1" Above Hot Tube Sheet	not required for less than 40%
	24	37	24	5.6" Nove Cold Tube Sheet	through wall degradation
	24	37	21	4.6" Above Cold Tube Sheet	(TWD).
	30	113	21	6.1" Above Hot Tube Sheet	
	32	29	30	7.1" Above Hot Tube Sheet	
	32	103	23	9.7" Above Not Tube Sheet	
	33	32	31	11.8" Above Hot Tube Sheet	
	35	48	22	11.3" Above Cold Tube Sheet	
	36	37	37	6.5" Above Cold Tube Sheet	
	39	36	34	6.2" Above Cold Tube Sheet	
	45	38	38	7.0" Above Cold Tube Sheet	
	47	50	36	12.2" Above Cold Tube Sheet	
	48	51	30	12.0" Above Cold Tube Sheet	
	48	51	38	11.7" Above Cold Tube Sheet	

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1.	-OWNER: Maine Yankee Atomic Power Company, Augusta, Maine
2.	PLANT: Naine Yankee Atomic Power Plant, Wiscasset, Maine
3.	PLANT UNIT: 1 4. OWNER CERTIFICATE OF AUTHORIZATION: DPR-36
5.	COMMERCIAL SERVICE DATE: 12/29/72

- NATIONAL BOARD NUMBER FOR UNIT: Reactor Vessel 20865
- 11. ABSTRACT OF CONDITIONS NOTED:

## 12. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN:

CORRECTIVE CATEGORY CONDITION MEASURE \* TWD LOCATION Line Row Degraded 49 26 23 1.0" Above Hot Tube Sheet Tuber (Cont'd) 53 88 30 11.7" Above Cold Tube Sheet 83 48 30 1.1" Above Hot Tube Sheet 91 1.1" Above Hot Tube Sheet 60 22 92 32 0.9" Above Hot Tube Sheet Imperfect @ Third Vertical Support rubes 7 106 <20 103 <20 @ Third Vertical Support 8 <20 0.6" Above Hot Tube Sheet 20 41 3.9" Above Hot Tube Sheet 22 <20 21 21 40 <20 0.6" Above Hot Tube Sheet 22 37 <20 5.9" Above Cold Tube Sheet 2.0" Above Hot Tube Sheet 25 22 <20 32 115 <20 5.2" Above Cold Tube Sheet <20 6.2" Above Cold Tube Sheet 38 37 40 37 <20 6.1" Above Cold Tube Sheet 43 <20 6.9" Above First Cold Leg Support 38 43 118 <20 0.7" Above Hot Jube Sheet 44 37 <20 6.7" Above Cold Tube Sheet 47 <20 1.5" Above Hot Tube Sheet 26 12.2" Above Hot Tube Sheet 52 105 <20 53 @ Diagonal Brace Hot Leg 28 <20 62 <20 5.1" Above Second Cold Leg Support 81 68 71 <20 9.8" Above Cold Tube Sheet 91 1.0" Above Hot Tube Sheet 64 <20 92 59 <20 0.9" Above Hot Tube Sheet

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			INSERVI	CE INSPECTIONS	
1. OWNER:	Maine Ya	nkee A	tomic Pov	ver Company, Augusta, Maine	
2. PLANT:	Maine Ya	ankee A	tomic Pov	er Plant, Wiscasset, Maine	
3. PLANT UNI	T:1_	4.	OWNER CE	ERTIFICATE OF AUTHORIZATION:	DPR-36
5. COMMERCIA	L SERVICE	DATE:	12/29/	72	
6. NATIONAL	BOARD NUM	BER FOR	UNIT: _	Reactor Vessel 20865	
11. ABSTRACT	OF CONDIT	ONS NO	TED:		
12. ABSTRACT	OF CORRECT	TIVE ME	ASURES RE	COMMENDED AND TAKEN:	
ADDITIONAL	L STEAM GI	ENERATO	R EXAMINA	TION RESULTS:	
CATEGORY	COND	TION	MEASURE MEASURE		
	STEAM	GENER			
	Row	Line	S TWA	LOCATION	
	8	95	56	0.9" Above Hot Tube Sheet	Plugged Tube
	20	135	Crack	@ Hot Tube Sheet	Plugged & Staked
	45	122	Crack	0.2" Above Hot Tube Sheet	Plugged & Staked
	52	65	Crack	@ Hot Tube Sheet	Plugged & Staked
	69	122	Crack	@ Hot Tube Sheet	Plugged & Staked
	75	26	Crack	@ Hot Tube Sheet	Plugged & Staked
	75	34	Crack	@ Hot Tube Sheet	Plugged & Removed
	75	118	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked
	78	115	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked
	80	111	Crack	@ Hot Tube Sheet	Plugged & Staked
	82	33	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked
	82	111	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked
	82	113	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked
	85		Crack	@ Hot Tube Sheet	Plugged & Staked
	89	46	Crack	@ Hot Tube Sheet	Plugged & Staked
	91	38	Crack	0.1" Above Hot Tube Sheet	Pluggod & Staked
	96	51	Crack	@ Hot Tube Sheet	Plugged & Stakea
	97	100	Crack	@ Hot Tube Sheet	Plugged & Staken
	101	82	Crack	0.1" Above Hot Tube Sheet	Plugged & Scaned
	101	86	Crack	0.2" Above Hot Tube Sheet	Plugged & Staked
	103	86	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked

Crack

Crack

0.1" Above Hot Tube Sheet

0.2" Above Hot Tube Sheet

Plugged & Staked

Plugged & Staked

108

108

69

73

			INSERV	ICE INSPECTIONS				
1OWNER:	Maine Y	ankee A	tomic Po	wer Company, Augusta, Maine				
2. PLANT:	Maine Ya	ankee A	Atomic Po	wer Plant, Wiscasset, Maine				
3. PLANT UNIT	1 _1	4.	OWNER C	ERTIFICATS OF AUTHORIZATION:	DPR-36			
5. COMMERCIAL	SERVICE	DATE:	12/29	1/72				
6. NATIONAL E	OARD NUM	BER FOR	UNIT: _	Reactor Vessel 20865				
11. ABSTRACT C	F CONDIT	IONS NO	TED:					
12. ABSTRACT C	F CORRECT	TIVE ME	ASURES F	RECOMMENDED AND TAKEN:				
ADDITIONAL	COND	TION	RATOR #1	(Cont'd)	CORRECTIVE MEASURE			
	Row	Line	% TWD	LOCATION				
	108	77	Crask	0.1" Above Hot Tube Sheet	Plugged & Staked			
	108	79	Crack	0.2" Above Hot Tube Sheet	Plugged & Staked			
	STEAM	GENER	RATOR #2					
	35	126	Crack	0.2" Above Hot Tube Sheet	Plugged & Staked			
	40	107	51	0.6" Above Hot Tube Sheet	Plugged			
	42	103	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked			
	42	107	Crack	0.1" Above Hot Tube Sheet	Plugged & Staked			
	STEAM GENERATOR #3							
	14	31	Crack	@ Second Hot Leg Support	Plugged			
	33	28	Crack	0.1" Above Cold Tube Sheet	Plugged & Staked			
	47	38	Dent	0.4" Above First Hot Leg Support	Plugged			
	49	96	Crack	@ Hot Tube Sheet	Plugged & Staked			
	54	97	57	0.1" Above Hot Tube Sheet	Plugged			
	55	50	47	0.3" Above Hot Tupe Sheet	Plumone			
	60	97	CLack	0.1" Above Hot Tube Sheet	Plugged & Staked			
	67	46	Crack	@ Hot Tube Sheet	Plugged & Staked			
	112	71	Crack	@ Hot Tube Sheet	Plugged & Staked			

37 Blocked -----

Flugged

100

1OWNER: Ma	ine Yankee Atomic Powe: Company, Au	gusta, Maine		
. 2. PLANT: Ma	ine Yankee Atomic Power Plant, Wisc	asset, Maine		
3. PLANT UNIT: _	1 4. OWNER CERTIFICATE OF A	UTHORIZATION: DPR-36		
5. COMMERCIAL SE	RVICE DATE: 12/29/72			
6. NATIONAL BOAR	D NUMBER FOR UNIT: Reactor Vessel	20865		
11. ABSTRACT OF C	CONDITIONS NOTED:			
12. ABSTRACT OF C	CORRECTIVE MEASURES RECOMMENDED AND	TAKEN:		
CATEGORY	CONDITION	CORRECTIVE MEASURE		
	SAFETY CLASS 1 SUPPORTS			
F-A,B,&C	One support for a 2" loop drain header was found with a loose bolt on the pipe clamp.	The support was repaired and reinspected. Three (3) additional supports were examined in accordance with IWF-2430.		
	SAFETY CLASS 2 SUPPOR S			
F-A, B, &C	One support on a 10" residual heat removal line was found with a loose bolt on the pipe clamp.	The support was repaired and reinspected. Four (4) additional supports were examined in accordance with IWF-2430.		

## FORM MIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT As Required by the Provisions of ASME Code Section XI

Owner	Maine	(Name)	Atomic Po	ower Comp	any	Date _1	990 Refu	eling	
						_ Sheet	1	of	14
Plant	Maine Y		omic Powe	r Plant	_ Uni	t Reacto	r Vessel	20865	
		sset Ma	ine						
					2.0				
WOLK	Periormed	by <u>see</u>	(Name)	through	6/-	Repair Orga	nization	P.O. No.,	Job No., etc.
(a) i	Applicable Class	e Constru	ction Co	de <u>B31.</u>	1 19	77 Editio	on,		Addenda, Code
(b)						d for Repai	re or Re	eplacements	- 1980, <u>w80</u>
Ident					Transfer .	aced, and R	eplaceme	nt Component	
Nar	ne of	Name	Mfrs.	Nat'1	CRN	Other	Year	Repaired	ASME Code
Cor	nponents	of Mfr.	Ser. No.	Bd. No.	No.	Identi- fication	Built	Replaced or Replace- ment	Stamped (yes or no)
Se	e pages	15-27							
		Other	[ ] Pres	sure		psi Test T	emp	°F.	-
	-								
certify	that the	stateme	nts made	in this			et and th	nie repair	& replacemen
	ra mo	Alham		15	1 Coc				
DATES AND THE REAL PROPERTY OF THE PARTY OF	Yowner	or owne		income in a source	TE OF		(Date)		DIRAUMATURA PER
s been rtifi aplied, ither jury of spectic	vessel I	nspectors have ins that to t ted in ac her the I ng the re ctor nor y damage	ng a vali and the spected the best cordance inspector pair or his empl or a los	d commis State o he	sion is r Provi owledge ction i employ ent des ll be i kind a	described and belief of the Assertibed in the arising from	in this in the interior constitution or constitution in or constitution in the interior constitution in this interior constitution in this in this in this interior constitution in the interior constit	employed by Report on repair or re By signing ty, express ort. Further for any pe	placement of this sed or ermore, ersonal
te 7-	15.90	Will	spector)	Comm	ission	State or	Province	, Nat'l Bd)	
	Plant  Work  Ident (a)  Ident  Nan Con  Se  Descri  Tests  Remark  certify forms t  hed  the un essure plied, ither in jury on spectic spectic	Plant Maine Y  Wisca (Addre  Work Performed  Identification  (a) Applicabl Class  (b) Applicabl Class  (b) Applicabl Components  See pages  Description of  Tests Conducted  Remarks  (Application  Remarks  (Application  Add  Identification  Name of Components  See pages  Description of  Tests Conducted  Remarks  (Application  Application  Application  Name of Components  Identification  Name of Components  See pages  Description of  Tests Conducted  Remarks  (Application  Application  Application  Name of Components  Identification  Name of Components  See pages  Identification  Name of Components  Identification  Identific	Augusta, Maine (Address)  Plant Maine Yankee At (Name)  Wiscasset Ma (Address)  Work Performed by See  Identification of System (a) Applicable Construction (Class)  (b) Applicable Edition (Addenda, Construction (Components)  Name of Name (Components)  Name of Name (Components)  Name of Name (Components)  Pescription of Work See (Applicable Material (Applicable Mat	Augusta, Maine (Address)  Plant Maine Yankee Atomic Power (Name)  Wiscasset Maine (Address)  Work Performed by See pages 15 (Name)  Identification of System See (Name)  (a) Applicable Construction Conclass  (b) Applicable Edition of Section Addenda, Code Class  Identification of Components Resolved Components of Ser. Mfr. No.  See pages 15-27  Description of Work See pages  Tests Conducted: Hydrostatic [ Other [ ] President Components of Ser. Mfr. No.  See pages 15-27  Description of Work See pages  Tests Conducted: Hydrostatic [ Other [ ] President Components of Ser. Mfr. No.  Certify that the statements made forms to Section XI of the ASME of Ser. May a series of Ser. May a series of S	Augusta, Maine (Address)  Plant Maine Yankee Atomic Power Plant (Name)  Wiscasset Maine (Address)  Work Performed by See pages 15 through (Name)  Identification of System See pages (a) Applicable Construction Code B31. Class  (b) Applicable Edition of Section XI Addenda, Code Class  Identification of Components Repaired of Ser. Name of Name Mfrs. Sac'l Components of Ser. Bd. Mfr. No. No.  See pages 15-27  Description of Work See pages 15 through Components of Ser. Bd. Mfr. No. No.  See pages 15-27  Description of Work See pages 15 through Components of Ser. Bd. Mfr. No. No.  CERTIFICA Components to Section XI of the ASME Code.  The Components of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components and the State of Section XI of the ASME Code.  CERTIFICA Components and the State of Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA Components to Section XI of the ASME Code.  CERTIFICA COMPONENT	Augusta, Maine (Address)  Plant Maine Yankee Atomic Power Plant Uni (Name)  Wiscasset Maine (Address)  Work Performed by See pages 15 through 27. (Name)  Identification of System See pages 15 th (a) Applicable Construction Code B31.1 19 Class  (b) Applicable Edition of Section XI Utilize Addenda, Code Class  Identification of Components Repaired or Repl Name of Name Mfrs. Sat'l CRN of Ser. Bd. No. No.  See pages 15-27  Description of Work See pages 15 through 27.  Tests Conducted: Hydrostatic [ ] Pneumatic [ Other [ ] Pressure  Remarks  (Applicable Manufacturer's Data Report forms to Section XI of the ASME Code.  The Market Code.  CERTIFICATE OF Commission is essure Vessel Inspectors and the State or Province And State that to the best of my knowledges been constructed in accordance with Section XI tiff ate, neither the Inspector nor his employer shall be ignery or property damage or a loss of any kind a spection.  Te 7-15-50  William State Commission is expection.	Augusta, Maine (Address)  Plant Maine Yankee Atomic Power Plant Unit Reacto (Name)  Wiscasset Maine (Address)  Work Performed by See pages 15 through 27. See page Identification of System See pages 15 through 27.  (a) Applicable Construction Code B31.1 19 77 Edition Class  (b) Applicable Edition of Section XI Utilized for Repair Addenda, Code Class  Identification of Components Repaired or Replaced, and Repair Components of Ser. Bd. No. Identification of Ser. Bd. No. Identification Mfr. No. No. No. Identification of Components of Ser. Bd. 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See pages 15 th (Name) Repair Organization (Name)  Identification of System See pages 15 through 27.  (a) Applicable Construction Code B31.1 19 77 Edition, Class  (b) Applicable Edition of Section XI Utilized for Repairs or Re Addenda, Code Class  Identification of Components Repaired or Replaced, and Replaceme Name of Name Mfrs. Nat CRN Other Year Components of Ser. Bd. No. Identification of Ser. Bd. No. Identification Built fication See pages 15-27  Description of Work See pages 15 through 27.  Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operatin Other [ ] Pressure psi Test Temp.  Remarks (Applicable Manufacturer's Data Reports to be attached)  CERTIFICATE OF COMPLIANCE Forms to Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the undersigned, holding a valid commission issued by the National Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the undersigned in this report and the State or Province of Components of Manufacturer is a been constructed in accordance with Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the Inspector on his employer makes any warrar is a been constructed in accordance with Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the Inspect of Inspection of the Inspector on his employer makes any warrar is a been constructed in accordance with Section XI of the ASME Code.  CERTIFICATE OF INSPECTION the Inspect	Augusta, Maine (Address)  Plant Maine Yankee Atomic Power Plant (Name)  Wiscasset Maine (Address)  Work Performed by See pages 15 through 27. (Name)  Repair Organization P.O. No.,  (Name)  Repair Organization P.O. No.,  Identification of System  See pages 15 through 27.  (a) Applicable Construction Code  Bil. 19 77 Edition,  Class  (b) Applicable Edition of Section XI Utilized for Repairs or Replacements  Addenda, Code Class  Identification of Components Repaired or Replaced, and Replacement Component  Name of Name Mfrs. No. No. Identi-Built Organization P.O. No.  Mfr. No. No. Identi-Built Organization Pressure  See pages 15-27  Description of Work See pages 15 through 27.  Tests Conducted: Hydrostatic [ ] Pneumatic [ ] Nominal Operating Pressure  Other [ ] Pressure psi Test Temp.  *F.  Remarks  (Applicable Manufacturer's Data Reports to be attached)  CERTIFICATE OF COMPLIANCE  Pertify that the statements made in this report are correct and this repair forms to Section XI of the ASME Code.  **CERTIFICATE OF COMPLIANCE**  CERTIFICATE OF INSPECTION  CERTIFICAT

Note: Supplemental sheets in form of lists, sketches, or drawings may be use provided (1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 4 on this data fort is included on each sheet, and (3) each sheet is numbered and the number of sheets is corded at the top of this form.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 01/20/89

Augusta, Maine SHEET: 2 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865

Wiscasset, Maine

Job No. and Title: DR/RO 6685-88; Charging Pump Oil Cooler Pipe Repair

System: Primary Component Cooling (PCC)

Safety Class: 3

Work Performed by: Maine Yankee

Description: A 1 inch union was replaced due to excessive leakage.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee Specifications.

Pressure Test: The new welds were hydrostatically tested to at least 1.10 times the design pressure of 150 psi at a temperature greater than 40°F.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 10/11/89
Augusta, Maine SHEET: 3 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865

Wiscasset, Maine

Job No. and Title: DR/RO 2216-89; EFW Recirc Line Repair

System: Emergency Feedwater (EFW)

Safety Class: 3

Work Performed by: Cianbro Corporation, Pittsfield, Maine

Description: Weld repairs were made to degraded EFW underground piping. The leaks resulted from external pitting at gaps in the protective covering on the piping.

Secti NI Preservice NDE: None required. New welds were inspected per the construction code and Yankee Specifications.

Pressure Test: The new welds were hydrostatically tested to at least 1.10 times the safety valve setting of 75 psi at a temperature greater than 40°F.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEET: 4 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: DR/RO 1962-90; Replacement of Valve SIA-340

System: Safety Inje (SIA)

Safety Class: 1

Work Performed by: Anchor Darling Valve Co., Williamsport, PA

Description: A 2 inch valve was replaced due to excessive seat leakage.

Section XI Preservice NDE: Liquid penetrant exams were performed on the new welds as well as inspections per the construction code and Yankee General Specifications.

Pressure Test: The new welds were hydrostatically tested to at least 1.25 times the design pressure of 2485 psi at a temperature greater than 40°F.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEET: 5 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: DR/RO 1954-90; Replacement of Valve MS-69

System: Main Steam (MS)

Safety Class: 2

Work Performed by: Anchor Darling Valve Co., Williamsport, PA

Description: One 2 inch valve was replaced because it was difficult to stroke.

Section XI Preservice NDE: None required. New welds were inspected per the construction coas and Yankee General Specifications.

Pressure Test: The downstream side of the valve was hydrostatically tested to at least 1.25 times the design pressure of 950 psi at a temperature greater than 40°F.

The upstream side of the valve received an inservice leak test in lieu of a hydrostatic test because the subject weld could not be isolated from the Steam Generator. See IWA-5214 (d), IWA-2240 and Code Case N 416.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEET: 6 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscauset, Maine

Job No. and Title: DR/RO 3599-89; Replacement of Valve CS-54

System: Containment Spray (CS)

Safety Class: 2

Work Performed by: Anchor Darling Valve Co., Williamsport, PA

Description: One : inch valve was replaced due to excessive seat leakage.

Section XI Preservice NDE: None required. New welds were insr Leed per the construction code and Yankee General Specification.

Pressure Test: The new welds were pneumatically tested to at least 1.25 times the design pressure of 70 psi at a temperature greater than 40°F.

1. OWNER: Maine Yankse Atomic Power Company, DATE: 1990 Refueling Augusta, Maine SKEET: 7 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: DR/RO 6979-88; Replacement of Valve BD-148

System: Blowdown (BD)

Safety Class: 2

Work Performed by: Anchor Darling Valve Co., Williamsport, PA

Description: One 1 1/2 inch valve was replaced due to excessive seat leakage.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee General Specifications.

Pressure Test: The new welds were hydrostatically tested to at least 1.25 times the design pressure of 950 psi /: a temperature greater than 40°F.

1. OWNER: Maine Yankee Atomic Power Company, DATL: 1990 Refueling SHEET: 8 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: DR/RO 3597-89; Replacement of Valve PW-80.

System: Primary Water (PW)

Safety Class: 2 and NNS (see IWA 1300 [f])

Work Performed by: Anchor Darling Valve Co., Williamsport, PA

Description: A 2 inch valve was replaced due to excessive seat leakage.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee General Specifications.

Pressure Test: The new welds were pneumatically tested to at least 1.10 times the design pressure of 150 psi at a temperature greater than 40°F.

1. Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEET: 9 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: EDCR 89-53-4; Appendix J - Modification to the Nitrogen System

System: Nitrogen (N)

Safety Class: 2 and NNS (see IWA-1300 [f])

Work Performed by: Cianbro Corporation, Pittsfield, ME

Description: A 2 inch check valve (N-29) was replaced with softseat check valve due to repetitive seat leakage problems.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee General Specifications.

Pressure Test: The new welds were pneumatically tested to at least 1.10 times the design pressure of 250 psi at a temperature greater than 40°F.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEET: 10 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: DR/RO 1428-90; Cleaning of AC-1A Tubes

System: Primary Component Cooling (PCC)

Safety Class: 3

. .

Work Performed by: Maine Yankee

Description: In order to access the tubes of AC-1A, a PCC line had to be cut. The pipe was subsequently re-welded.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee General Specifications.

<u>Pressure Test:</u> The new welds were hydrostatically tested to at least 1.10 times the design pressure of 150 psig at a temperature greater than 40°F.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEFT: 11 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Restor Vessel 20865
Wiscasset Maine

Job No. and Title: DR/RO 2626-90; Cleaning of AC-1B "ubes

System: Secondary Component Cooling (SCC)

Safety Class: 3

. . .

Work Performed by: Maine Yankee

Description: In order to access the tubes of AC-1B, a SCC line had to be cut. The pipe subsequently re-welded.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee General Specifications.

Pressure Test: The new welds were hydrostatically tested to at least 1.10 times the design pressure of 150 psi at a temperature greater than 40°F.

1. OWNER: Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEET: 12 of 14

2. PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: DR/RO 2209-90; Replacement of Valve DG-14.

System: Diesel Generator Starting Air (DG)

Safety Class; 3

. . .

Work Performed by: Maine Yankee

Description: One 1 1/2 inch valve was replaced because it was difficult to stroke.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee General Specifications.

Pressure Test: The new welds were pneumatically tested to at least 1.25 times the safety valve setting of 220 psi at a temperature greater than 40°F.

DATE: 1990 Refueling SHEET: 13 of 14 OWNER: Maine Yankee Atomic Power Company, Augusta, Maine

UNIT: Reactor Vessel 20865 PLANT: Maine Yankee Atomic Power Plant,

Wiscasset, Maine

EDCR 89-53-2; Appendix J - Primary Vent System Modification - Penetration No. 24 Job No. and Title:

Primary Vent (PV) System:

Safety Class:

Work Performed by: Cianbro Corporation, Pittsfield, ME

Description:

None required. New welds were inspected per the construction code Section XI Preservice NDE: and Yankee General Specifications.

The upstream side of the valve was pneumatically tested to at least 1.25 times the design pressure of 150 psi at a temperature greater than 40°F. Pressure Test:

> The downstream side of the valve is open to the atmosphere, therefore, flow through the valve was verified; see IWD-5223 (d).

1. OWNER: Maine Yankee Atomic Power Company, DATE: 1990 Refueling SHEET: 14 of 14

PLANT: Maine Yankee Atomic Power Plant, UNIT: Reactor Vessel 20865
Wiscasset, Maine

Job No. and Title: EDCR 89-53-1; Appendix J - Primary Drain System Modification - Penetration No. 39.

System: Quench Tank (PR)

Safety Class; 3

Work Performed by: Cianbro Corporation, Pittsfield, ME

Description: A 2 inch valve (PR-93) was installed to permit testing of the Containment Building in accordance with 10CFR50, Appendix J.

Section XI Preservice NDE: None required. New welds were inspected per the construction code and Yankee General Specifications.

Pressure Test: The upstream side of the valve was pneumatically tested to at least 1.25 times the design pressure of 150 psi at a temperature greater than 40°F.

The downstream side of the valve received an inservice leak test in lieu of a hydrostatic test because the weld could not be isolated from a storage tank and the inservice pressure is greater than the tank's static pressure. See IWA-2240.

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