### Vermont Yankee Non-Code Internal Visual Examination Report Form for Components and Piping

Work Order No.:	51081726	0/
Drawing No/Rev.:	G-191481	Rev 2

•			·	Page <u>1</u>	of <u>2</u> Da	ate: <u>02/01/07</u>	
Component and/or Piping							
Component ID: Sand drain tube BAY 2 System ID: SAND DRAIN Examined: In Place Removed							
What is Being Examined	: SAND DI	RAIN TUB	'E IN	ITERNALS			
Visual Aids							
Light Source (Describe):		al Examination			ru manen		
☐ Installed Lighting  X Temporary Lighting*	DLYMPU	13 11182	א א	COPE IPLL	EX PIONEL		
Method		T T	* Phot	O See Remarks		Sketch	
	Remote	☐No:	•	Attached	⊠No		
Indications	Acceptable	Recordable	N/A	Ren	narks/Obser	vations	
Cracks			X				
Physical Damage		X		Kink at	91"		
Erosion/Corrosion			X				
Arc Strikes			X				
Loose Parts		X		Debris			
Missing Parts			X				
Excessive Movement			X				
Alignment			X				
Clearances			X				
Thread Damage			X				
Loose Bolting			X				
Fractured Bolting			X				
Thread Engagement			X				
Evidence of Leakage			X				
Degraded Coatings			X				
Other (Explain)		X	7	Sec AHai	ched		
(*) Remarks: Light source integral to Videoscope  Electronic Video Record Retained in Records Management							
Examiner: Mike Griffin	17/02	Level		Date_ <i>021</i>	01/01	ISI Group Evaluation	
Examiner: Dava King f	(A) (1)		<u>III</u>	Date 02/		Required?	
Reviewer: // Weste / F.T. Under Koffee KL Date 2/1/07 Yes No							
Remarks:	Little cha	nge from	1787	4			
						Initials: ///	

Experience Hours Credit: 4.0

# **Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064**

Code Programs NDE Report #: 07-001

Page 2 of 2

### Supplemental Information

- 1. No screen was evident at the end of the drain tubing. There was no obvious obstruction at the tube inlet.
- 2. Air flow was noted moving in the direction of the sand cushion.
- 3. Small stone type particle debris was noted in 10% to 15% of the tube length. While extensive, it does not appear that these obstructions would impede the flow of water that may come from the sand cushion area.
- 4. A tubing kink exists at 91" from the tubing inlet
- 5. A tubing joint was noted at 44" form the tubing inlet and appears to be functional.
- 6. Overall tube length is approximately 167"

#### Work Order No.: 5/0 8/726 01 Vermont Yankee Non-Code Internal Visual Examination Drawing No/Rev.: 6-191481 Rev 2 Report Form for Components and Piping Page 1 of 2 Date: 02/01/07 Component and/or Piping Component ID: Sand drain tube BAY 4 System ID: SAND DRAIN Examined: In Place Removed What is Being Examined: SAND DRAIN TUBE INTERNALS Visual Aids Light Source (Describe): Remote Visual Examination Aids Used (Describe): Installed Lighting OLYMPUS FIBER SCOPE IPLEX MODEL ▼Temporary Lighting\* \* Photo See Remarks Method Sketch Remote Direct None Attached None Attached **Indications** Acceptable Recordable N/A Remarks/Observations Cracks X 8711 **Physical Damage** Kink at **Erosion/Corrosion** Arc Strikes Loose Parts **Missing Parts Excessive Movement** Alignment Clearances **Thread Damage Loose Bolting** Fractured Bolting Thread Engagement Evidence of Leakage **Degraded Coatings** See Attached Other (Explain) (\*) Remarks: Light source integral to videoscope Electronic Video Record Retained in Records Management ISI Group Examiner: Mille Griffin Level 12 Date 02/01/01 **Evaluation** Examiner: Dava Mine Date 02/01/07 Level III Required? Reviewer: 🇷 N Date 2/1/07 Yes X No Water was observed in 1987

Experience Hours Credit: 4.0

Initials: MG

# **Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064**

Code Programs NDE Report #: <u>07-002</u>

Page <u>2</u> of <u>2</u>

### Supplemental Information

- 1. Screen intact with approximately 40% of the screen area clear.

  Approximately 60% of the screen area has sand or other deposit impingement.
- 2. Air flow noted in the direction of the sand cushion.
- 3. Kink noted at approximately 87" from the drain tube entry.
- 4. Minor debris noted including what appears to be a nail.
- 5. Joint at 49" from tube entry appears to be functional.
- 6. Overall tube length was not measured for this tube due to scaffold obstruction and radiation dose consideration.

#### Work Order No.: 5/0 8/726 01 Vermont Yankee Non-Code Internal Visual Examination Drawing No/Rev.: 6-191481 Rev 2 Report Form for Components and Piping Page 1 of 2 Date: 02/01/07 Component and/or Piping Component ID: Sand Stain tube BAY 6 System ID: SAND DRAIN Examined: In Place Removed What is Being Examined: SAND DRAIN TUBE INTERNALS Visual Aids Light Source (Describe): Remote Visual Examination Aids Used (Describe): OLYMPUS FIBER SCOPE IPLEX MODEL Installed Lighting X Temporary Lighting\* Method \* Photo See Remarks Sketch Direct Remote Attached None Attached **Indications** Acceptable Recordable N/A Remarks/Observations Cracks Χ Physical Damage Kink at 8811 Erosion/Corrosion Arc Strikes Loose Parts **Missing Parts Excessive Movement** Alignment Clearances Thread Damage **Loose Bolting** Fractured Bolting Thread Engagement Evidence of Leakage **Degraded Coatings** Other (Explain) See Attached (\*) Remarks: Light Source integral to Videoscope Electronic Vidao Record Retained in Records Managment **ISI Group** Examiner: Mike Giffin Level I Date 02/01/01 **Evaluation** Examiner: Dava King / L Level 4 Date 02/01/07 Required? RIDate\_1/07 Reviewer: Yes X No 1987 Remarks:

Experience Hours Credit: 4.0

Initials: 7%G

# **Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064**

Code Programs NDE Report #: <u>07-003</u>

Page 2 of 2

#### Supplemental Information

- 1. Screen appears to be intact with sand and other deposit impingements noted over approximately 98% of the screen surface area.
- 2. Kink noted at approximately 88" from the tube entry.
- 3. Joint noted at approximately 42" from tube entry. Joint appears to be intact and functional.
- 4. Overall length of drain tube is approximately 162" from tube entry.
- 5. No conclusive air flow was noted in this tube.

#### Work Order No.: 5/0 8/726 01 Vermont Yankee Non-Code Internal Visual Examination Drawing No/Rev.: 6-191481 Rev 2 Report Form for Components and Piping Page 1 of 2 Date: 02/01/07 Component and/or Piping Component ID: Sand deain tube BAY 8 System ID: SAND DRAIN Examined: In Place Removed What is Being Examined: SAND DRAIN TUBE INTERNALS Visual Aids Light Source (Describe): Remote Visual Examination Aids Used (Describe): Installed Lighting OLYMPUS FIBER SCOPE IPLEX MODEL ▼Temporary Lighting\* \* Photo See Remarks Method Sketch Direct Remote Attached None Attached **Indications** Acceptable Recordable N/A Remarks/Observations **Cracks** Χ Kink at 96" **Physical Damage Erosion/Corrosion Arc Strikes** Χ **Loose Parts** X **Missing Parts Excessive Movement** Alignment Clearances Thread Damage **Loose Bolting** Fractured Bolting Thread Engagement **Evidence of Leakage Degraded Coatings** Sec Attached Other (Explain) light source intergral to video scope (\*) Remarks: Electronic Video Record Retained in Records Managment ISI Group Examiner: Mille Geiffin / Level I Date 02/01/07 Evaluation Examiner: Dava King/ Level III Date 02/01/07 Required? Reviewer: F. J. Vata 16 ftha KI Date 2/1 Yes XNo. Little dange Remarks:\_

Experience Hours Credit: 4.0

Initials: 7%G

### Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064

Code Programs NDE Report #: <u>07-004</u>

Page 2 of 2

#### Supplemental Information

- 1. Screen intact with approximately 40% of the surface area clear and approximately 60% included by sand or other deposits.
- 2. Kink noted at approximately 96" form tube entry.
- 3. Joint noted at 47" from tube entry. Joint appears to be intact and functional.
- 4. Overall length of tube is approximately 172" measured from tube entry.
- 5. No conclusive air flow was noted in this tube.

Vermont Yankee				Work Order No	Work Order No.: 5/0 8/726 0/			
Non-Code Internal Visual Examination Report Form for Components and Piping				Drawing No/Rev.: 6-191481 Rev 2				
	Page 1 or	f_2Da	ate: <u>02/01/07</u>					
Component and/or Piping								
Component ID: Sand Itain tobe BAY 10 System ID: SAND DRAIN Examined: In Place Removed								
What is Being Examined: SAND DRAIN TUBE INTERNALS								
T: 1. G	TD 377		ual Aid		· · · · · · · · · · · · · · · · · · ·			
Light Source (Describe):  Installed Lighting  Temporary Lighting*		al Examination /S FIBE		COPE IPLE	X MODEL	,		
Method			<b>≯</b> Phot	O Sac Remarks		Sketch		
	Remote	□No		Attached	⊠No			
Indications	Acceptable	Recordable	N/A	Rem	arks/Obser	vations		
Cracks		.,	X	10 1	0.111			
Physical Damage		X		Kink at	94"	<del></del>		
Erosion/Corrosion			X			<del></del>	_	
Arc Strikes			<u> </u>		<del></del>			
Loose Parts			X					
Missing Parts			X					
Excessive Movement			×					
Alignment			_X					
Clearances			X					
Thread Damage			X		·			
Loose Bolting			X	 <del> </del>				
Fractured Bolting			_X		<del></del>			
Thread Engagement			X					
Evidence of Leakage		· · · · · · · · · · · · · · · · · · ·	X					
Degraded Coatings			X					
Other (Explain)	}	X		See Attache	ed			
(*) Remarks: light source intergral to video scope Electronic Video Record Retained in Records Management								
		77.11						
Examiner: Mille Griffin Michal Bullin Level II Date 02/01/07 ISI Group								
Examiner: Dave King / Level Date 02/01/07 Evaluation							i	
Reviewer: F-T-Use Hille   State   Pate   Pres   No								
Remarks: Lettle days form 1987								
		- Je ie				Initials: MG		

Experience Hours Credit: 4.0

# **Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064**

Code Programs NDE Report #: <u>07-005</u>

Page 2 of 2

### Supplemental Information

- 1. Screen appears to have a slight gap between the screen surface and the tube end. Screen is intact with approximately 98% of the screen surface area included by sand and other impinged material.
- 2. Kink noted at approximately 94" from tube entry.
- 3. Joint noted at 44" from tube entry. Joint has a significant gap in the coupling, but appears to be intact and functional.
- 4. Overall tube length is approximately 166".
- 5. No conclusive air flow was noted.

Vermont Yankee Non-Code Internal Visual Examination Report Form for Components and Piping					Work Order No.: 5/08/726 01  Drawing No/Rev.: 6-/9/48/ Rev 2			
		Page <u>1</u> o	f_2Date:	02/01/07				
		Componer	nt and/o	r Piping				
Component ID: Sand Arain tube BAY 12 System ID: SAND DRAIN Examined: In Place What is Being Examined: SAND DRAIN TUBE INTERNALS								
		<del></del>	ual Aid					
Light Source (Describe):  Installed Lighting  Temporary Lighting*	Light Source (Describe): Remote Visual Examination Aids Used (Describe):  Installed Lighting  OLYMPUS FIBER SCOPE IPLEX MODEL							
Method			-	to Sac Remarks		ketch		
	Remote	□No		Attached	None			
Indications Cracks	Acceptable	Recordable	N/A	Rem	arks/Observat	ions		
Physical Damage		X	_	Kink at	0711			
Erosion/Corrosion			X	71/2/( 4/	<i>a.</i> /			
Arc Strikes			X					
Loose Parts	<b>†</b>	<b>Y</b>		light des	(nie			
Missing Parts			X	119/11 000	.,,,			
Excessive Movement			X					
Alignment	r		X		<del></del>	······································		
Clearances			X		- <del></del>	<del></del>		
Thread Damage			X					
Loose Bolting			X			<del></del>		
Fractured Bolting			X					
Thread Engagement			X		***************************************			
Evidence of Leakage			X					
<b>Degraded Coatings</b>			X					
Other (Explain)		X	7.	See Attack	red			
(*) Remarks: light Electronic l	source into	ord Retain	dee see	n Records Mai				
	1	n. ni			<del></del>			
Examiner: Milla Griffi.	n/Males L	Leve	<u> </u>	Date_02/4	1107	ISI Group		
Examiner: Dava King /	1/07	Evaluation Required?						
Reviewer: F.T. Under to the Stuffe RI Date 2/1/07 Yes No								
Remarks: Lette change from 1787								
Initials: 7%G								
L	/^							
Experience Hours Credit:_	4.0							

# Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064

Code Programs NDE Report #: <u>07-006</u>

Page 2 of 2

### Supplemental Information

- 1. Slight gap noted between the screen and tube end. Screen is intact with approximately 30% of the area clear and approximately 70% of the screen area included with sand and other impinged material.
- 2. Kink noted at approximately 87" from tube entry.
- 3. Minor debris noted.
- 4. Joint noted at 45" from tube entry. Joint has a gap but appears to be intact and functional.
- 5. Overall tube length is approximately167".
- 6. Small air flow noted in direction of the sand cushion.

Vermont Yankee Non-Code Internal Visual Examination Report Form for Components and Piping				Work Order No.: 5/0 8/726 01  Drawing No/Rev.: 6-/91481 Rev 2  Page 1 of 2 Date: 02/01/07			
		I_ZDa	Ie: <u>02/01/07</u>				
		Componer	it and/o	r Piping			
Component ID: Sand ili					Examined	d: ⊠In Place □Removed	
What is Being Examined:	SANU U						
	T		ual Aid				
Light Source (Describe): Installed Lighting Temporary Lighting*	4	al Examination // FIBE		COPE IPLE	X MODEL		
Method				O See Remarks		Sketch	
	Remote	No		Attached	⊠No		
Indications	Acceptable	Recordable	N/A	Rem	arks/Obser	vations	
Cracks		1/	X	<i>V</i> 1 1		<del> </del>	
Physical Damage		X	100	Kink at	72" ni	iner screen damage	
Erosion/Corrosion			X			<del></del>	
Arc Strikes			_X				
Loose Parts		X		Debris 15	fring	<del></del>	
Missing Parts			X				
Excessive Movement			X				
Alignment			X				
Clearances			X				
Thread Damage			X				
Loose Bolting		·	X				
Fractured Bolting			X				
Thread Engagement			X				
Evidence of Leakage			X		<del></del>		
Degraded Coatings			X				
Other (Evoluin)		X		See AHad	had		
(*) Remarks: /igh	trooper i	ntergral to ord Retain	video	Scope n Records Mai			
	1111	0.11			<del></del>		
Examiner: Mille Griffin	1 Michel L	Level	1	Date_ <i>02/0</i>	11/07	ISI Group	
Examiner: Dava King / if Level II Date 02/01/07 Required?							
Reviewer: F- J. Mady	14 ×/	Must		<u> KL</u> Date 2//	107	☐Yes <b>X</b> No	
Remarks:	Little de	nge/then	198	2			
						Initials: MG	

Experience Hours Credit: 4.0

# **Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064**

Code Programs NDE Report #: <u>07-007</u>

Page 2 of 2

#### Supplemental Information

- 1. Screen intact and 100% clear. Minor damage to screen.
- 2. Minor debris noted.
- 3. Air flow noted in direction of sand cushion.
- 4. Kink noted at approximately 72" from tube entry.
- 5. Joint noted at approximately 47" from tube entry. Joint appears to be intact and functional.
- 6. Overall tube length is approximately 163".

#### Work Order No.: 5/0 8/726 0/ Vermont Yankee Non-Code Internal Visual Examination Drawing No/Rev.: G-191481 Rev 2 Report Form for Components and Piping Page 1 of 2 Date: 02/01/07 Component and/or Piping Component ID: Sand drain tube BAY 16 System ID: SAND DRAIN Examined: In Place Removed What is Being Examined: SAND DRAIN TUBE INTERNALS Visual Aids Light Source (Describe): Remote Visual Examination Aids Used (Describe): Installed Lighting DLYMPUS FIBER SCOPE IPLEX MODEL ▼ Temporary Lighting\* Method \* Photo Sac Remarks Sketch Direct Remote None Attached Attached **Indications** Acceptable Recordable N/A Remarks/Observations Cracks Χ Kink at 93" Physical Damage **Erosion/Corrosion Arc Strikes Loose Parts Missing Parts Excessive Movement** Alignment Clearances Thread Damage Loose Bolting Fractured Bolting Thread Engagement Evidence of Leakage **Degraded Coatings** Sec Attached Other (Explain) light source intergral to Video Scope (\*) Remarks: Video Record Retained in Records Managment ISI Group Examiner: Mike Griffin Level I Date 02/01/01 Evaluation Examiner: Dava King 126vel III Date 02/01/07 Required? Reviewer: F.T. Habrel Date\_ 2/1/07 Yes XINo Remarks:

Experience Hours Credit: 4.0

Initials:

# **Vermont Yankee Non-Code Internal Visual Examination Procedure NE 8064**

Code Programs NDE Report #: <u>07-008</u>

Page 2 of 2

#### Supplemental Information

- 1. Screen intact approximately 80% clear and approximately 20% included by impinged material.
- 2. Double kink noted at approximately 93" form tube entry.
- 3. Air flow noted in the direction of the sand cushion.
- 4. Joint at approximately 48" from tube entry. Joint appears to have a slight gap but otherwise intact and functional.
- 5. Overall tube length is approximately 164".