

RAS M-223

From: Rick Ennis *ME*
 To: *ME* Alan Wang; Allan Barker; Allen Howe; Anthony McMurtray; Brian Sheron; Cheng-lh Wu; Christopher Grimes; David Terao; Diane Screnci; Donna Skay; Eric Leeds; Gene Imbro; James Clifford; Jim Dyer; John Craig; John Jolicoeur; Kamal Manoly; Neil Sheehan; Richard Barrett; Richard Borchardt; Scott Burnell; Tae Kim; Terrence Reis; Thomas Scarbrough; William Beckner; William Ruland
 Date: 4/16/04 1:31PM
 Subject: Fwd: VY Steam Dryer Crack Info

Attached is a little more detail on the steam dryer cracking at Vermont Yankee.

CC: Cliff Anderson; David Pelton

DOCKETED
USNRC

August 12, 2008 (11:00am)

OFFICE OF SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF

U.S. NUCLEAR REGULATORY COMMISSION

In the Matter of Energy Nuclear Vermont Yankee LLC
 Docket No. 50-24 Official Exhibit No. NEC-JH 57
 OFFERED by: Applicant/Licensee Intervenor NEC
 NRC Staff _____ Other _____
 IDENTIFIED on 7/23/08 Witness/Panel Hofmann
 Action Taken: ADMITTED REJECTED WITHDRAWN
 Reporter/Clerk MAC

D-21

Template Secy-028

DS-03

Mail Envelope Properties (40801878.B4F:15:20516)

Subject: Fwd: VY Steam Dryer Crack Info
Creation Date: 4/16/04 1:31PM
From: Rick Ennis

Created By: RXE@nrc.gov

Recipients	Action	Date & Time
kp1_po.KP_DO	Delivered	04/16/04 01:31PM
CJA CC (Cliff Anderson)	Opened	04/16/04 01:31PM
DLP1 CC (David Pelton)	Opened	04/19/04 07:13AM
DPS (Diane Screnci)	Opened	04/16/04 01:53PM
NAS (Neil Sheehan)	Opened	04/16/04 01:43PM
owf1_po.OWFN_DO	Delivered	04/16/04 01:31PM
SRB3 (Scott Burnell)	Opened	04/16/04 01:32PM
owf2_po.OWFN_DO	Delivered	04/16/04 01:31PM
ACM2 (Anthony McMurtray)	Opened	04/16/04 01:58PM
CIWI (Cheng-Ih Wu)	Opened	04/17/04 10:14AM
DMS6 (Donna Skay)	Opened	04/16/04 03:12PM
DXT (David Terao)	Opened	04/16/04 01:48PM
EXI (Gene Imbro)	Opened	04/21/04 01:46PM
KAM (Kamal Manoly)		
RJB3 (Richard Barrett)	Opened	04/19/04 07:30AM
RWB1 (Richard Borchardt)	Opened	04/16/04 02:20PM
TGS (Thomas Scarbrough)	Opened	04/16/04 01:34PM
TXR (Terrence Reis)		
owf4_po.OWFN_DO	Delivered	04/16/04 01:31PM
ABW (Alan Wang)	Opened	04/16/04 02:02PM
AGH1 (Allen Howe)	Opened	04/19/04 07:24AM
ARB3 (Allan Barker)	Opened	04/16/04 01:31PM
BWS (Brian Sheron)	Opened	04/16/04 04:44PM
CIG (Christopher Grimes)	Opened	04/16/04 01:35PM
EJL (Eric Leeds)		
JED2 (Jim Dyer)	Opened	04/16/04 01:43PM
JWC (James Clifford)	Opened	04/19/04 09:09AM
JWC1 (John Craig)	Opened	04/16/04 01:32PM
TJK3 (Tae Kim)	Opened	04/16/04 01:40PM
WDB (William Beckner)	Opened	04/16/04 01:32PM
WHR (William Ruland)	Opened	04/16/04 01:56PM
owf5_po.OWFN_DO	Delivered	04/16/04 01:31PM

JRJ1 (John Jolicoeur)

Opened

04/19/04 12:16PM

Post Office

kp1_po.KP_DO
owf1_po.OWFN_DO
owf2_po.OWFN_DO
owf4_po.OWFN_DO
owf5_po.OWFN_DO

Delivered

04/16/04 01:31PM
04/16/04 01:31PM
04/16/04 01:31PM
04/16/04 01:31PM
04/16/04 01:31PM

Route**Files**

Mail

MESSAGE

Size

578

Date & Time

04/16/04 01:31PM

Options

Auto Delete: No
Expiration Date: None
Notify Recipients: Yes
Priority: Standard
Reply Requested: No
Return Notification: None

Concealed Subject:

No

Security:

Standard

To Be Delivered:

Immediate

Status Tracking:

Delivered & Opened

From: Cliff Anderson *PI*
To: Rick Ennis *RR*
Date: 4/16/04 12:59PM
Subject: Fwd: VY Steam Dryer Crack Info

fyi

From: Raymond Lorson ^{RE}
To: A. Randolph Blough; Brian Holian; Cliff Anderson; David Pelton; Hubert J. Miller;
James Wiggins; Richard Crlenjak; Wayne Lanning
Date: 4/16/04 12:11PM
Subject: VY Steam Dryer Crack Info

FYI:

The attached write-up summarizes what we know about the VY steam dryer cracks to date.

Ray

While performing visual inspections of the reactor vessel steam dryer, Entergy and General Electric personnel identified several indications on both the interior and exterior surfaces of the dryer:

- Two external cracks were identified on outer plenum vertical welds (the longest crack was approximately 3 inches in length). The licensee plans to grind out, repair and install additional supports to reinforce these welds;
- Two internal cracks were identified in the drain channel weld. The longest crack was 14 inches in length. These cracks are inaccessible for repair. The licensee (based on input from GE) believes that they can demonstrate that operation with these cracks is acceptable

In addition to the cracks noted above, multiple axial indications were identified on the internal surface of the curved end plate of the dryer vane bank. The licensee has not determined whether these indications are cracks or manufacturing anomalies. The licensee (based on input from GE) believes that they can demonstrate that operation with these indications is acceptable.

The licensee is considering a press release on this topic and has indicated that the cracks are in low-stress, low-steam flow, areas of the dryer, and not in the areas affected at the EPU plants.

Region I reviewed the licensee's steam dryer inspection activities during a scheduled, routine ISI inspection and is continuing to monitor this situation. Similar external weld cracks were identified and repaired earlier this spring at Nine Mile Unit 2.