



Interoffice Communication

To : PEM, IV, WFH, 1st and 2nd Level Supervisors and Bulletin Boards
(Vinyl & Maint. Storeroom)

From : C. R. Miller

Date : April 26, 1982

Subject: RUPTURE DISC REPLACEMENT AND TESTING

A potential exists for a rupture disc to burst below its rated pressure due to faulty manufacture of the disc or due to faulty installation. Due to the seriousness of any VCM release, some new procedures have been established to minimize this potential. Therefore, the following procedures will be followed when replacement of rupture discs in VCM service is necessary. These procedures must be followed and deviations from such are not to be allowed.

Storeroom

1. On receipt of a new lot of rupture discs, the storeroom will notify maintenance supervision of that receipt.

Maintenance

1. When notified of receipt of discs from a new lot, one disc is to be selected from the new lot, placed in a pretorqued holder and the relieving pressure checked by bursting the disc. Deviations of the relief pressure from that listed on the disc should be brought to the attention of the Mechanical Superintendent or Plant Superintendent immediately. A list of approved lots is to be maintained so it can be checked whenever a disc is obtained from the storeroom.
2. All rupture discs removed from VCM service will be burst in the maintenance shop while still in the pre-torqued holder. This burst pressure will be recorded in the rupture disc log book.
3. New discs to be installed in the holder and the holder itself will be examined for dents, scratches, etc. that may affect burst pressure. Damaged discs are not to be used.
4. Whenever a disc is to be installed, it will be placed in holders and pre-torqued in the shop by qualified maintenance personnel only. The disc will then be shop tested at 90% of its burst pressure at 72°F. The pre-torque and disc test for reactor service will be observed by approved maintenance supervisory personnel. The supervisory personnel will log in the rupture disc book all identifying information on the disc, test pressure, mechanic doing job and supervisor witnessing job.
5. Installation of rupture discs on reactors will be witnessed in the field by approved maintenance supervisory personnel.

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6. Qualified rupture disc installers and maintenance supervisory personnel will be trained at least once per year and documented in the rupture disc log book. A list of currently qualified maintenance personnel is attached.
7. A list of maintenance supervisory personnel who currently qualify to witness pretorquing, shop testing and field installation of rupture discs is attached.

Operations

1. On completion of a reactor rupture disc installation by maintenance, the reactor will require a complete reactor hydrotest to 165 pounds per square inch pressure. The hydrotest of the reactor is to be witnessed by one of the personnel approved on the list attached. A reactor hydrotest log is to be maintained and should include the test findings and the witnessing personnel.
2. PVC reactors will operate no longer than six months between rupture disc changeouts.

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Attachment

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I. QUALIFIED RUPTURE DISC INSTALLERS

Maintenance Hourly Personnel

W. Harlow	L. Threadgill
D. Rambus	D. Roberts
D. Nolen	L. Kennedy
D. Andrews	J. McWhirter
B. Oliver	W. Moore
L. Phillips	J. Edwards
C. Warren	F. Blanchard
L. Goodwin	C. Holcomb
C. Peden	T. Harden
B. McAllister	L. Rea
B. Ward	J. Walker
H. Jackson	J. Lowe
W. Troupe	J. Crosby
T. Staten	L. Frye
L. Howell	

Maintenance/Mechanical Supervisors

M. Williams
F. Frantz
R. Rye
J. Windham
J. Horstman
C. Davis
M. Skinner
J. Dixon

II. MAINTENANCE INSTALLATION OBSERVERS

J. Horstman	R. Rye
J. Windham	F. Frantz
M. Richards	M. Williams
S. Allen	C. Davis
G. Morgan	M. Skinner
D. Miller	J. Dixon
J. White	R. Harned

III. OPERATIONS HYDROTEST OBSERVERS

P. Markey	C. Miller
M. Blackwell	V. Messack
J. Perez	R. Frohreich
V. Thornhill	J. Friend
A. Barfield	B. Vick
D. Mahler	J. Prows
C. Greene	