

Davis-Besse Nuclear Power Station  
ENGINEERING WORK REQUEST  
DB-0044-0

RED  
ORIGINAL

ENGINEERING WORK REQUEST (EWR) NO.

02-0217-00

STATEMENT OF PROBLEM

Reactor Vessel Head had degraded because of boric acid corrosion.

☐ CONTINUED

SUS NO.  
064-02

INITIATING DOCUMENT (IF APPLICABLE)  
N/A

PROPOSED CHANGE

Replace existing Reactor Vessel Head. Also replace the existing Service Structure if required.

☐ CONTINUED

INITIATOR (PRINT NAME) / SIGNATURE  
P.K.GOYAL

EXT.  
7351

DATE  
5/15/02

SUPERVISOR (PRINT NAME) / SIGNATURE  
T.S.SWIM

DATE  
5/15/02

DESIGN BASIS ENGINEERING REVIEW

☒ ACCEPTED ☐ REJECTED - Attach Justification

☐ COMMERCIAL CHANGE

☐ DOCUMENT ONLY CHANGE

☐ EQUIVALENT CHANGE

☐ SIMPLE CHANGE

☒ MAJOR CHANGE

☒ YES INTERIM DESIGN PACKAGE  
☐ NO (SCs, ECs, or MCs ONLY)

DESIGN BASIS ENGINEERING SUPERVISOR (PRINT NAME) / SIGNATURE

T.S.WIM / T.S.Wim

750,000

DATE  
5/15/02

☐ NOT APPLICABLE  
☒ REQUEST FOR  
DESIGN EFFORT TO  
BEGIN IMMEDIATELY

☒ APPROVED  
☐ REJECTED

DESIGN BASIS ENGINEERING MANAGER (PRINT NAME) / SIGNATURE

David [Signature]

DATE  
5/16/02

SYSTEM TEAM REVIEW (for MCs & SCs only)

PRIORITY:

CYCLE: 13RF0

ESTIMATED COST: 750,000

☒ APPROVED  
☐ REJECTED

SYSTEM TEAM LEADER

A. [Signature]

DATE  
5/28/02

BUDGETARY APPROVAL

☐ APPROVED  
☐ REJECTED - Attach Justification

MANAGER - DESIGN BASIS ENGINEERING (for SCs & MCs ≤ 50K)

DATE

☐ APPROVED  
☐ REJECTED - Attach Justification

MANAGER - MAINTENANCE (for SCs & MCs ≤ 50K)

DATE

ACCOUNTING WORK ORDER NUMBER

50,771

☐ O&M  
☒ Capital

PRC CHAIRPERSON (Conceptual Design - MC Only)  
☐ APPROVED  
☐ REJECTED

DATE

PRC CHAIRPERSON (Detailed Design)  
☒ APPROVED  
☐ REJECTED

[Signature]

DATE  
6/4/02

24

ENGINEERING CHANGE / PROJECT DISPOSITION WORKSHEET

Section A

Initiation

Document Number: EWR 02-0217

PE Andrew Siemaszko OTHER

System Team Member:

DE Prasoon Goyal, Peter Sadowy

OPS Bob Lakis

Section B

Problem Description

Reactor Head Wastage

Problem Summary:

Reactor Head requires replacement.

☐ Continued

Section C

Do Nothing Option

Risk Associated with Doing Nothing:

Modification is required due to wastage identified on existing head. Doing Nothing is not an option.

☐ Continued

☐ Team Recommends Taking No Action

System Team Leader \_\_\_\_\_ Date \_\_\_\_\_

ENGINEERING CHANGE / PROJECT DISPOSITION WORKSHEET

Section D

Alternative Solutions Considered

Description of Alternative Number 1 of 2

Repair damage to existing head. This option was already pursued under EWRs 02-0111 "RV Head Repair" and EWR 02-0112 "Reactor Vessel Head CRDM Relocation". Davis-Besse management elected to abandon repair option in favor of Head replacement.

Associated Risks:

Repair option required prior NRC approval with no assurance that final repair configuration would be accepted by regulators.

Preliminary Cost Estimate:

☐ <\$25K

☐ <\$25 - \$50K

☐ <\$50 - \$100K

☒ >\$100K

☐ Continued

Description of Alternative Number 2

No Other Options Available.

Associated Risks:

N/A

Preliminary Cost Estimate:

☐ <\$25K

☐ <\$25 - \$50K

☐ <\$50 - \$100K

☐ >\$100K

☐ Continued

ENGINEERING CHANGE / PROJECT DISPOSITION WORKSHEET

Section E

Justification for Recommendation of Alternative 1

- ☒ Addresses Plant Safety Issue  
☒ Addresses Regulatory Issue  
☐ Annual Radiation Exposure Reduction of [ ] Man Rem  
☐ Improved Reliability  
☐ Annual Cost Savings of [\$ ] with a [ ] year payback period  
☐ Improved Capacity – Increase [ ] Mwe  
Supporting Explanation:

The reactor head must be replaced before plant can restart from 13RFO. Not implementing this change will prevent restart.

☐ Continued

Section F

Plant Change Implementation Recommendation and Constraints

Recommended Priority and Implementation Cycle (provide justification):

13 RFO - must be completed prior to startup from 13 RFO.

Operational/Constructability Implementation Constraints:

None

Material Constraints:

Material available, usable replacement head is available from Consumers Energy Midland site.

System Team Leader

*A. H. H. H. H.*

Date

5/29/02

☐ Continued

ENGINEERING CHANGE / PROJECT DISPOSITION WORKSHEET

Continuation Sheet