

## **Front End BRC Review –Status**

February 25, 2004

### **Canted Undualtor Front End**

*Close of Sharma Committee*

- Horizontal collimator to horizontal and vertical
- Eliminate lines of sight in ratchet wall collimator
- Eliminate lines of sight in collimator in FOE
- Safety shutter, stepped tungsten and actuator

### **High Heat Load Front End**

*New Design – IXS and Nano*

- BRC met on 6 Feb.
- XFD mechanical review on February 18
- BRC issues to be closed out

### **Bending Magnet Front End**

*New design*

- mask and raytraces previously considered
- integrated design, BRC reviewer comments due February 27

### **ID First Fixed Mask**

*Modification to current design*

- explosion bond to braze and mesh to coil

# **FRONT-END SPARES**

**Division Directors have committed to a Plan to Ensure Adequate FE Spares and Design Records**

**1. Confirmation of Roles and Responsibilities**

**(2/24/04)**

**2. Assessment of Current FE Spares**

**(3/23/2004)**

**3. Ensure Adequacy of FE Design Records**

**(8/23/2004)**

# Configuration Control Work Permit

## To Be Completed by Requester

Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Intended Start Date: \_\_\_\_\_  
 Sector: \_\_\_\_\_ BM \_\_\_\_\_ ID \_\_\_\_\_ Estimated Duration: \_\_\_\_\_

**Critical Components Involved:**     Yes                       No

Description of work: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## To Be Completed by Floor Coordinator

Stations effected by this Work Permit: \_\_\_\_\_ A B C D E I  
 Stations able to run with this Work Permit posted:                      None A B C D E I  
(Circle all that apply)

Beamline review required:  
 No Additional Review                       Mechanical Engineering  
 **Critical Component System Manager**     Vacuum  
 Radiation Physicist *(required if rad survey necessary)*     BRC Review  
 Survey & Alignment                       BCRRT Review  
 PSS Review\*                       Other \_\_\_\_\_

*\*It is the sole responsibility of the APS operations organization to install and maintain the PSS.*

## Floor Coordinator Approval (to begin work)

\_\_\_\_\_  
Signature                      Date

Comments: \_\_\_\_\_  
 \_\_\_\_\_

## Approvals Required to Close Out Permit

<p style="color: red; text-align: center; font-weight: bold; font-size: 1.2em;">CCSM / FC Notification of CCSM, Signature/Date</p> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px;"> </div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">Health Physics, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">CAT Representative, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">Radiation Physicist, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">Radiation Physicist Contacted, Recorded in logbook/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">Survey &amp; Alignment, Signature/Date</div>	<div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">PSS Representative, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">BRC Representative, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">BCRRT Representative, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">Mechanical Engineering, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">Vacuum, Signature/Date</div> <div style="background-color: #cccccc; padding: 2px; margin-bottom: 2px; text-align: center;">Other, Signature/Date</div>
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## Floor Coordinator Restoration of Administrative Control

\_\_\_\_\_  
Signature                      Date

Comments: \_\_\_\_\_  
 \_\_\_\_\_

**If a violation is found, the beamline shall be taken off line. The FC will not bring it back on line until a determination of the cause has been made.**

**WORK REQUEST NO: 14721**

**Badge Info:** 43806 - Gagliano, Joseph - ASD-VAC **Designated Group:** ASD-VAC  
**Submission Date:** 02/05/2004 09:22 **Estimated Duration:** 0 Day(s) 40 hours

**Work  
Description:**

Remove incorrect first fixed mask from 1ID front end. Install correct fixed mask and bake out from SR exit valve to slow valve.

**Safety Concerns:****Priority:****Next Access****Machine: FRONT-END****Status:****COMPLETED****Requested Start Date:** 02/09/2004 09:00**Scheduled Date:****Systems Affected:** SHIELDING, WATER, PSS, VACUUM, BL OPERATION, FE EPS, FE OPERATION**Systems Required:** FE EPS, PSS, WATER, VACUUM**Access To Secured**

ZONE-A

**Area Required:****Loto Requirement:** MCR+INDIVIDUAL**Beamline:** ID**Sector:** 1**Schedule Period:** MACHINE-INTERVENTION**Pss Validation:** NO**Was Hardware**

YES

**Replaced?:****Replaced Hardware:** M1-20**Approved by:** Ramanathan, Mohan on: 02/06/2004 13:22**Completed by:** Ramanathan, Mohan on: 02/11/2004 07:44**Comments:**

Alignment of fixed mask is important. aperture has to be 24Hx12V (M1-30). Following bakeout need walk through by HP and confirmation from ASD-VAC group of correctness of mask installed.