



THREE-YEAR SECTOR SAFETY REVIEW REPORT

ICMS Document Number APS_2168612

Review Number	Review Title	Review Date
PSC-2020-TYSSR-S23	Three Year Sector Safety Review of XSD GM/CA Sector 23	August 18, 2020
Scope / Agenda		Review Team
XSD-GM/CA ES&H Plan Implementation Sector 23 Specific Safety Issues PSC/AES Configuration Control Records RSS Component Survey & Alignment Update RSS Interface Identification PSS User Requirements Specification Ray Traces, Operational Envelope, Design Reviews Health Physics Survey Records ES&H Inspection Records ES&H Walk-Through LOM 436-D office areas, laboratories Sector 23 beamlines, control areas, egress aisles		John Connolly Nena Moonier Paul Rossi Mike Fries Cassandra Hayden Patti Pedergrana Liz Schmidt Steve Davey Ken Belcher Merrick Penicka Beth Heyeck Bob Fischetti Naga Venuopalan Steve Corcoran Kristin Ahrens
Review Chair	ESH/QA Representative	Responsible Manager
Nena Moonier	Mike Fries	John Connolly

Executive Summary:

The TYSSR for XSD-GM/CA was held on August 18, 2020. There have been some personnel changes since the last review in 2017. Bob Fischetti is now both the Group Leader and Safety Coordinator for XSD-GM/CA. The group communicates safety matters well and there are no outstanding safety issues of note.

Section 1: TYSSR criteria are based upon APS User Safety Policies and Procedures, APS Procedure 3.1.102, Section Beamline Facilities Reviews (Formerly AP&P 3.1.18, APS document number APS_118581)

Agenda Items / Review Criteria		Discussion / Objective Evidence	Action Required
1.	Date of last TYSSR	May 18, 2017	None

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Agenda Items / Review Criteria		Discussion / Objective Evidence	Action Required
2.	Beamline management presents a summary of the ES&H program and notes changes, if any, since the last TYSSR.	Naga Venugopalan presented the XSD-GM/CA Safety Presentation.	Presentation will be uploaded to ICMS
3.	Committee records concerns raised by Sector Personnel	<p>1. Water still leaks when it rains at the door from the experiment hall floor into 436C and D. Per S. Flood, Ed Russell and Ron Tollner stated that the overall roof project that will occur in the 436 area should address the water leak issue.</p> <p>2. The 436 parking lot will be closed for the LBB construction. A walkway from the CNM excess parking lot to 436 would be helpful, especially for emergency egress purposes. There is no clear access to CNM when the 436 parking lot is closed. Per Mohan R. a walkway from the CNM parking lot to 436 is not feasible. During the winter this walkway would not be cleared of snow and is too close to the construction area. The best option is to park at APCF (Bldg. 446). Another option is to park in the CNM parking lot and enter through the 437 LOM.</p> <p>3. Sector 23 was not told that the egress aisle between sectors 22 and 23 would be closed due to construction. The group has to use a roundabout route to access their LN2 fill station. Floor Coordinator A. Wayman checked on this situation on 8/19/2020. The egress aisle is now clear. It appears the path was taped off while some HVAC work for the 22 control room was being done but the tape was not removed upon completion of the work. Mike Molitsky said that if there are any other issues to please notify him.</p> <p>4. The sector asked if the upstream wall of the A hutch was routinely surveyed. Per Beth Heyeck the interior of the A hutch was surveyed during the last routine survey on 7/1/2020. No further action is needed.</p>	
4.	Committee reports outstanding action items, if any, from last TYSSR	None	None

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5.	Each partner user group operating a beamline shall:	<i>See sub-items.</i>	
6.	Review beamline safety program and ES&H plan at least once every thirty-six months; revise them, as needed, and provide ES&H plan to APS User Safety Officer for approval.	The XSD Beamline Safety Plan is in ICMS, Content ID APS_1270900, and was last reviewed on September 1, 2017. The Plan is valid until September 2020.	None
7.	Review beamline safety assignments annually and reassign responsibilities or create new roles, as needed; notify USO of changes in personnel assigned to ES&H roles.	Communicated through monthly data check of Beamline HR Admin application.	None
8.	The committee verifies that the following records are on file and consistent with the beamline:	<i>See sub-items.</i>	
9.	Review/approval records for modifications to beamline safety systems since last TYSSR	There have been no updates to the beamlines since the previous TYSSR.	None
10.	Configuration control list	Current as of the beginning of the last run.	None
11.	Administrative Restrictions	23-BM has an AR due to inability to complete the HP annual routine survey. This was due to BLEPS issues. 23-ID has no ARs.	23-BM: The HP annual routine survey must be completed before granting global online and APS enable.
12.	RSS component survey and alignment worksheets	Sector 23 was last surveyed during the April/May 2017 shutdown.	None
13.	RSS interface Document	23-BM: ICMS Content ID APS_1218093 23-ID: ICMS Content ID APS_1218094	None

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14.	PSS user requirements specification	23-BM: ICMS Content ID APS_1129156 23-ID: ICMS Content ID APS_1181474	None
15.	Sector floor plan, including egress aisles and work areas	ICMS Content ID APS_2038270	None
16.	Beamline layouts showing major radiation safety shielding components	23-BM: ICMS Content ID APS_2038271 23-ID: ICMS Content ID APS_2038272	None
17.	Synchrotron and Bremsstrahlung ray trace drawings for all operating modes	23-BM: ICMS Content ID APS_1413709 23-ID: ICMS Content ID APS_1413710	None
18.	Design drawings of RSS components that show functionality, shielding and aperture dimensions, and shielding material	See Component Reference Tables 23-BM: ICMS Content ID APS_1438062 23-ID: ICMS Content ID APS_1438063 Also see the FDR in ICMS which lists components, ICMS Content ID APS_1428571. Native file is a zip archive containing AutoCAD drawings of all RSS components.	None
19.	Thermal analysis for RSS components connected to PSS water flow	23-BM, ICMS Content ID APS_1256118 23-ID-A-P-01 IBST Out, ICMS Content ID APS_1421303 Not Tagged PreMask, ICMS Content ID APS_1423251 23-ID-A-P-02 IBSH In, ICMS Content ID APS_1421750 23-ID-C-P-01 IBST In, ICMS Content ID APS_1421319	None
20.	Assembly drawings for x-ray shielded enclosures	Hutch drawings for BM and ID lines are filed together in a zip archive, ICMS Content ID APS_1440842	None
21.	Date of last Health Physics routine survey	The last HP routine survey for 23-ID-A, B, C, D was conducted on 7/1/2020. There were no issues of note.	None

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22.	ES&H coordinator provides recent ES&H inspection reports and identifies open safety issues, if any.	The last safety walk-through for Sector 23 was completed on October 21, 2019. There were no issues of note.	None
23.	Committee and beamline personnel discuss opportunities for improving the process	None	None

Section 2: Safety walk-through was not held on the day of the review. Review held virtually due to the Lab operating in Limited Operations.

ICMS Workflow Approvals Required

Nena Moonier (Assessment Team Leader)
 Paul Rossi (Assessment Team Member)
 Mike Fries (Assessment Team Member)
 Patti Pedernana (Assessment Team Member)
 Elizabeth Schmidt (Assessment Team Member)
 John Connolly (Responsible Manager)

File / Distribution: PSC Deputy Assoc. Lab Director - Operations (Approver)
 CAT or XSD Division Director
 Sector Personnel and Safety Coordinator
 User Safety Officer
 PSC ESH/QA Representative
 User Experiment Oversight
 APS User Technical Interface
 AES-EFO Group

Supporting Documents:

- XSD-GM/CA Sector 23 Three-Year Sector Safety Review Notification Letter (APS_2168608)
- XSD-GM/CA Sector 23 Three-Year Sector Safety Review Agenda (APS_2168609)
- XSD-GM/CA Sector 23 Three-Year Sector Safety Review Meeting Minutes (APS_2168610)
- XSD-GM/CA Sector 23 Three-Year Sector Safety Review Presentation (APS_2168611)