

Lead Craft:

PM No.: PD-BLM-018ID

Job Plan Descr: BEAMLIN MECHANICAL UTILITIES MAINTENANCE

Request Date: 10/04/2017	Work Order Type: PM
Group Leader: John Gosman Ext.: 7832 Cell: 631/680-5487	Work Planning: Worker Planned Work
Technical Supervisor: Rich Iaccarino Ext.: 5262 Cell: 631/278-6603	Work Order Status: In Progress (INPRG)
Engineer: O'Brien, William R Ext.: 2132 Cell:	
Scheduled Start Date:	Actual Finish Date:
Scheduled Finish Date: DEC 2017 EXTENDED SHUTDOWN	Priority: 0

Asset No.:

Asset Description:

Complex:

Location: 0740-FIRST-P5-18-ID

Location Description: NSLS II - FXI BEAMLIN

Services:

Attachments: N

Manufacturer:

Serial No.:

Model No.:

Department:

Activity-Project: 50322-50327

BNL Delivery Bldg.:

Equipment Notes:

Job Plan No: BL-001 **Job Plan Descr:** BEAMLIN MECHANICAL UTILITIES MAINTENANCE **Frequency:** 6 MONTHS
Status: ACTIVE **Revision:** 1 **Technically Reviewed:** [YES]

Job Plan Instructions

Task **Summary / Long Descr**

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Beamline Mechanical Utilities Preventative Maintenance Job Plan

Technician _____ Life # _____ Date _____

CHECK UTILITIES PM WORK ORDER FOR ASSET LIST OF EQUIPMENT EFFECTED BY THIS JOB PLAN PRIOR TO STARTING THE WORK

VALVES:

Visually inspect all manual and motorized valves of the DI water system, the compressed air system, the high capacity compressed air system, the gaseous nitrogen system, and the process chilled water system by observing the stem, packing nut, and connection fittings for any leakage.

Contact the Mechanical Utilities Technical Supervisor to resolve any leaks.

Note the BNL Tag ID of the valve(s) and briefly describe the resolution in the Comments Section below.

Comments:

AUTO AIR-VENTS:

Visually inspect all auto-air vents on the process chilled water supply system for leaks by observing the vent head and connection fittings.

Contact the Mechanical Utilities Technical Supervisor to resolve any leaks.

Note the BNL Tag ID of the valve(s) and briefly describe the resolution in the Comments Section below.

Comments:

DI WATER FILTERS:

Record the upstream and downstream line pressure of the DI water supply and return filters by noting the gauge pressures below.

DI Water Supply Filter

Task **Summary /
Long Descr**

Upstream: _____ PSIG

Downstream: _____ PSIG

DI Water Return Filter

Upstream: _____ PSIG

Downstream: _____ PSIG

Change the filter cartridge(s) if the difference in the upstream and downstream line pressure of either filter exceeds 4 PSID.

_____ Check here if a filter cartridge was changed out and record the new pressures.

DI Water Supply Filter

Upstream: _____ PSIG

Downstream: _____ PSIG

DI Water Return Filter

Upstream: _____ PSIG

Downstream: _____ PSIG

COMPRESSED AIR FILTERS:

Record the upstream and downstream line pressure of the compressed air system filter/regulator(s) by noting the gauge pressures below.

½" Compressed Air (INSIDE FOE)

Upstream: _____ PSIG

Downstream: _____ PSIG

½" Compressed Air (OTHER LOCATIONS IF REQUIRED)

Upstream: _____ PSIG

Downstream: _____ PSIG

High Capacity Compressed Air

Task Summary /
Long Descr

Upstream: _____ PSIG

Downstream: _____ PSIG

Isolate the filter/regulator(s) and remove the filter bowl. Clean the filter bowl with a clean soft cloth. Examine the mesh filtering element for debris and clean as required. Replace the element and the bowl and return the filter/regulator(s) back to service at the pressures noted above.

COMPRESSED AIR PRESSURE RELIEF VALVE(S):

Using the test ring on top of the relief valve(s), test the valve(s) can exhaust line pressure when pulling the ring and the valve re-seats itself when the ring is released. Replace any relief valve(s) that does not re-seat itself when the test ring is released. Record the BNL Tag ID of any relief valve that was replaced below.

Pressure Relief Valve BNL Tag ID _____

PROCESS CHILLED WATER SUPPLY STRAINERS:

Use the blow down port or valve of each mesh strainer basket on the process chilled water supply system. Flush enough water out of the strainer to clear any debris that may be collected on the mesh basket.

DI WATER SUPPLY AND PROCESS CHILLED WATER SUPPLY PRESSURE REGULATORS:

Visually inspect each water pressure regulator to ensure it is functioning properly and is clear of leaks.

Comments:

DI WATER SUPPLY AND PROCESS CHILLED WATER SUPPLY PRESSURE RELIEF VALVES:

Visually inspect each water pressure relief valve to ensure it is clear of leaks and does not have any clogged discharge piping or drains.

Comments:

- 20 18IDA-CA-FL-1070 18ID FXI COMPRESSED AIR FILTER/REGULATOR COMBO
- 30 18IDA-CA-PRV-1075 18ID FXI COMPRESSED AIR PRESSURE RELIEF VALVE
- 40 18IDA-CUR-FL-1059 18ID FXI DIW RETURN FILTER
- 50 18IDA-CUS-FL-1007 18ID FXI DIW SUPPLY FILTER
- 60 18IDF-PCHWS-STR-1122 18ID FXI PCHW SUPPLY STRAINER
- 70 18IDF-PCHWS-VLV-1123 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE

<u>Task</u>	<u>Summary / Long Descr</u>
80	18IDR-CA-PRG-1187 18ID FXI COMPRESSED AIR FILTER/REGULATOR COMBO
90	18IDR-CA-PRV-1188 18ID FXI COMPRESSED AIR PRESSURE RELIEF VALVE
100	18IDR-PCHWR-AV-1149 18ID FXI AUTO AIR VENT
110	18IDR-PCHWR-AV-1157 18ID FXI AUTO AIR VENT
120	18IDR-PCHWR-AV-1165 18ID FXI AUTO AIR VENT
130	18IDR-PCHWR-AV-1170 18ID FXI AUTO AIR VENT
140	18IDR-PCHWR-AV-1175 18ID FXI AUTO AIR VENT
150	18IDR-PCHWS-STR-1116 18ID FXI PCHW SUPPLY STRAINER
160	18IDR-PCHWS-STR-1128 18ID FXI PCHW SUPPLY STRAINER
170	18IDR-PCHWS-STR-1133 18ID FXI PCHW SUPPLY STRAINER
180	18IDR-PCHWS-STR-1141 18ID FXI PCHW SUPPLY STRAINER
190	18IDR-PCHWS-VLV-1117 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE
200	18IDR-PCHWS-VLV-1129 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE
210	18IDR-PCHWS-VLV-1134 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE
220	18IDR-PCHWS-VLV-1142 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE

Asset List:

Asset No.:	18IDA-CA-FL-1070	Manufacturer:	PARKER
Asset Description:	18ID FXI COMPRESSED AIR FILTER/ REGULATOR COMBO	Serial No.:	
Complex:	COMPLEX CENTRAL	Model No.:	FB11-04WGC-SS
Location:	0740-FIRST-P5-18-ID-A	Department:	
Location Description:	NSLS II RING, INJECTION, RF, & SERVICE- HUTCH FXI BEAMLINE		
Services:			

Equipment Notes:
5 MICRON ELEMENT

Job Plan Complete: Yes / No

Asset Comments:

Asset No.:	18IDR-PCHWS-VLV-1142	Manufacturer:	KECKLEY
Asset Description:	18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE	Serial No.:	
Complex:		Model No.:	STYLE E-150
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLINE		
Services:			

Equipment Notes:
BLOW DOWN VALVE

Job Plan Complete: Yes / No

Asset Comments:

Asset List:

Asset No.: 18IDF-PCHWS-VLV-1123 **Manufacturer:** KECKLEY
Asset Description: 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE **Serial No.:**
Complex: **Model No.:** STYLE E-150
Location: 0740-FIRST-P5-18-ID **Department:**
Location Description: NSLS II - FXI BEAMLINE
Services:

Equipment Notes:

BLOW DOWN VALVE

Job Plan Complete: Yes / No

Asset Comments:

Asset No.: 18IDR-CA-PRG-1187 **Manufacturer:** ARO
Asset Description: 18ID FXI COMPRESSED AIR FILTER/REGULATOR COMBO **Serial No.:** TAGGED AS A FILTER "FL" FLT/REG COMBO
Complex: **Model No.:** P39464-610 (GRAINGER P/N 6CRN8)
Location: 0740-FIRST-P5-18-ID **Department:**
Location Description: NSLS II - FXI BEAMLINE
Services:

Equipment Notes:

5 MICRON ELEMENT

Job Plan Complete: Yes / No

Asset Comments:

Asset No.: 18IDR-CA-PRV-1188 **Manufacturer:** KINGSTON
Asset Description: 18ID FXI COMPRESSED AIR PRESSURE RELIEF VALVE **Serial No.:**
Complex: **Model No.:**
Location: 0740-FIRST-P5-18-ID **Department:**
Location Description: NSLS II - FXI BEAMLINE
Services:

Equipment Notes:

100 PSIG SET PRESSURE

Job Plan Complete: Yes / No

Asset Comments:

Asset List:

Asset No.:	18IDR-PCHWR-AV-1149	Manufacturer:	SPIROTHERM
Asset Description:	18ID FXI AUTO AIR VENT	Serial No.:	
Complex:		Model No.:	SPIROVENT VJ SERIES
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLINE		
Services:			

Equipment Notes:

INLINE & HORIZONTAL

Job Plan Complete: Yes / No

Asset Comments:

Asset No.:	18IDR-PCHWR-AV-1157	Manufacturer:	SPIROTHERM
Asset Description:	18ID FXI AUTO AIR VENT	Serial No.:	
Complex:		Model No.:	SPIROVENT VJ SERIES
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLINE		
Services:			

Equipment Notes:

INLINE & HORIZONTAL

Job Plan Complete: Yes / No

Asset Comments:

Asset No.:	18IDR-PCHWR-AV-1165	Manufacturer:	SPIROTHERM
Asset Description:	18ID FXI AUTO AIR VENT	Serial No.:	
Complex:		Model No.:	SPIROVENT VJ SERIES
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLINE		
Services:			

Equipment Notes:

INLINE & HORIZONTAL

Job Plan Complete: Yes / No

Asset Comments:

Asset List:

Asset No.:	18IDR-PCHWR-AV-1170	Manufacturer:	SPIROTHERM
Asset Description:	18ID FXI AUTO AIR VENT	Serial No.:	
Complex:		Model No.:	SPIROVENT VJ SERIES
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLIN		
Services:			

Equipment Notes:

INLINE & HORIZONTAL

Job Plan Complete: Yes / No

Asset Comments:

Asset No.:	18IDR-PCHWR-AV-1175	Manufacturer:	SPIROTHERM
Asset Description:	18ID FXI AUTO AIR VENT	Serial No.:	
Complex:		Model No.:	SPIROVENT VJ SERIES
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLIN		
Services:			

Equipment Notes:

INLINE & HORIZONTAL

Job Plan Complete: Yes / No

Asset Comments:

Asset No.:	18IDR-PCHWS-STR-1116	Manufacturer:	KECKLEY
Asset Description:	18ID FXI PCHW SUPPLY STRAINER	Serial No.:	
Complex:		Model No.:	STYLE E-150
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLIN		
Services:			

Equipment Notes:

20 MESH

Job Plan Complete: Yes / No

Asset Comments:

Asset List:

Asset No.:	18IDR-PCHWS-STR-1128	Manufacturer:	KECKLEY
Asset Description:	18ID FXI PCHW SUPPLY STRAINER	Serial No.:	
Complex:		Model No.:	STYLE E-150
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLIN		
Services:			

Equipment Notes:

20 MESH

Job Plan Complete: Yes / No

Asset Comments:

Asset No.:	18IDR-PCHWS-STR-1133	Manufacturer:	KECKLEY
Asset Description:	18ID FXI PCHW SUPPLY STRAINER	Serial No.:	
Complex:		Model No.:	STYLE E-150
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLIN		
Services:			

Equipment Notes:

20 MESH

Job Plan Complete: Yes / No

Asset Comments:

Asset No.:	18IDR-PCHWS-STR-1141	Manufacturer:	KECKLEY
Asset Description:	18ID FXI PCHW SUPPLY STRAINER	Serial No.:	
Complex:		Model No.:	STYLE E-150
Location:	0740-FIRST-P5-18-ID	Department:	
Location Description:	NSLS II - FXI BEAMLIN		
Services:			

Equipment Notes:

20 MESH

Job Plan Complete: Yes / No

Asset Comments:

Asset List:

Asset No.: 18IDR-PCHWS-VLV-1117 **Manufacturer:** KECKLEY
Asset Description: 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE **Serial No.:**
Complex: **Model No.:** STYLE E-150
Location: 0740-FIRST-P5-18-ID **Department:**
Location Description: NSLS II - FXI BEAMLINE
Services:

Equipment Notes:

BLOW DOWN VALVE

Job Plan Complete: Yes / No

Asset Comments:

Asset No.: 18IDR-PCHWS-VLV-1129 **Manufacturer:** KECKLEY
Asset Description: 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE **Serial No.:**
Complex: **Model No.:** STYLE E-150
Location: 0740-FIRST-P5-18-ID **Department:**
Location Description: NSLS II - FXI BEAMLINE
Services:

Equipment Notes:

BLOW DOWN VALVE

Job Plan Complete: Yes / No

Asset Comments:

Asset No.: 18IDR-PCHWS-VLV-1134 **Manufacturer:** KECKLEY
Asset Description: 18ID FXI PCHW SUPPLY STRAINER BLOW DOWN VALVE **Serial No.:**
Complex: **Model No.:** STYLE E-150
Location: 0740-FIRST-P5-18-ID **Department:**
Location Description: NSLS II - FXI BEAMLINE
Services:

Equipment Notes:

BLOW DOWN VALVE

Job Plan Complete: Yes / No

Asset Comments:

Authorization and Initial Pre-Job Briefing or Daily Pre-Job Review

(Either a Pre-Job Briefing by Job Supervisor or a Review of Job, Hazards and Hazard Controls by Workers)

Work Order No.	Date:	Time:
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AUTHORIZATION TO PROCEED WITH PLANNED WORK

The Work is Authorized to be Performed ----- (Technical Supervisor)

_____	_____	_____
Print Name	Signature	Date

Questions/Comments:

NOTE TO USER OF THIS WORK ORDER: If this Work Order cannot be used as written to perform the intended work, Stop the job, restore the equipment to a safe or "as-found" condition and notify your Supervisor. Return the Work Order for revision (with your input) to correct the deficiency. The work will then be rescheduled.

FOR USE IF THERE IS A TURNOVER OF WORK BETWEEN SUPERVISORS FOR PERMITTED WORK

I have received a briefing of all planned work discussed from the Job Supervisor identified above. All questions and concerns have been resolved. I assume responsibilities for supervision and oversight of the work previously authorized herein.

Supervision Assumed By: _____

_____	_____	_____
Print Name	Signature	Date

Worker (only 1 signature required):

Date:

Reviewed By:

Date:

Job Supervisor