## Tube Room Update

Evan Carpenter

January 24, 2023

#### Delivery:

- MSU delivered 150 tubes last Friday. 0 Bent.
- Next delivery is this Thursday Jan 26th.

#### Tube Testing:

- ► MSU's Leak detector is up and running! Reinhard says it has been working since December.
- Mod 37 and 38 are ready and covered in Tube Room.
- There are enough good tubes for Mod 39.
- Only 155 MSU tubes from different dates still need leak test.
- ► Lots of tension and leak tests were done in the past week, many new tubes are now ready.

### **MSU Tubes**

WeekDate	MSU	BENT	Lok	Tok	T2ok	DCok	DONE	OK	GONE	USED	READY
10/28/22	503	0	503	492	469	496	483	465	11	354	111
11/04/22	100	1	100	100	88	100	99	88	0	10	78
11/18/22	200	0	200	199	183	200	198	183	1	9	174
11/25/22	300	0	300	298	255	299	275	254	2	0	254
12/02/22	195	0	195	194	163	195	177	163	1	0	163
12/09/22	100	2	100	100	90	99	97	90	0	0	90
01/06/23	200	0	200	198	188	197	199	185	2	0	185
01/13/23	200	5	195	199	181	198	193	181	1	0	181
01/20/23	150	0	0	150	0	0	0	0	0	0	0
TOTAL	1948	8	1948	1930	1617	1784	1721	1609	18	373	1236

Tube Room Inventory

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- ▶ 150 tubes from new shipment have not been leak tested yet.
- ► This total is including Mod 37, 38.

### **UM Tubes**

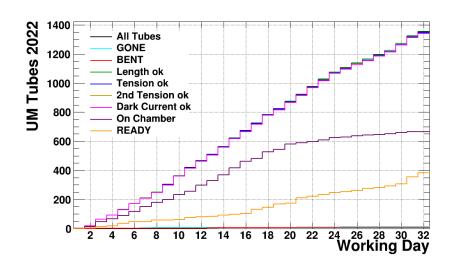
WeekDate	UM	BENT	Lok	Tok	T2ok	DCok	DONE	OK	GONE	USED	READY
11/04/22	129	1	129	127	126	128	127	124	4	84	40
11/11/22	233	1	232	231	227	230	226	223	3	142	81
11/18/22	260	4	260	259	255	258	256	253	1	173	80
11/25/22	101	0	100	101	100	100	100	100	0	61	39
12/02/22	250	0	250	249	249	250	249	248	1	101	147
12/09/22	191	2	191	188	184	188	186	183	2	0	183
12/16/22	188	1	188	188	185	186	185	185	0	0	185
TOTAL	1352	9	1350	1343	1326	1340	1329	1316	11	561	755

- ightharpoonup 1,236 MSU Tubes + 755 UM Tubes = **1,991 Total Ready**
- Accounting for Mod 37 and 38:

$$1,991 - 464 - 464 = 1,063$$
 Ready After 37, 38

- ▶ Rough manual count showed  $\sim 1,050$  good, so this number should be accurate.
- ▶ More sorting needs to be done to check T2 status.

UM Tubes





 $Tests\ of\ automating\ summary-making\ process.$ 

## Tube Room Inventory - MSU Tubes

Received	MSU	Lost	Bent	T1 <sub>ok</sub>	T2 <sub>ok</sub>	DC <sub>ok</sub>	Passed All	In Chamber	Ready
2022-11-04	100	0	1	100	88	100	88	10	78
2022-11-18	200	0	0	199	183	200	183	9	174
2022-11-25	300	0	0	298	255	299	254	0	254
2022-12-02	195	0	0	194	163	195	163	0	163
2022-12-09	100	0	2	100	90	99	90	0	90
2023-01-06	200	0	0	198	188	197	185	0	185
2023-01-13	200	0	5	199	181	198	181	0	181
2023-01-20	150	0	0	150	0	0	0	0	0
Need Leak	-	-	-	-	-	-	-5	-	-5
Total	1445	0	8	1438	1148	1288	1139	19	1120

Figure: Currently there is no way to keep track of individual dates' leak tests. I subtract it at the end so the total number of "Ready" tubes is accurate.

# Tube Room Inventory - UM Tubes

Constructed	UM	Lost	Bent	T1 <sub>ok</sub>	T2 <sub>ok</sub>	DC <sub>ok</sub>	Passed All	In Chamber	Ready
2022-11-04	129	3	1	127	126	128	123	84	39
2022-11-11	233	2	1	231	227	230	223	142	81
2022-11-18	260	0	4	259	255	258	253	173	80
2022-11-25	101	1	0	101	100	100	100	61	39
2022-12-02	250	0	0	249	249	250	248	101	147
2022-12-09	191	0	2	188	184	188	183	0	183
2022-12-16	188	0	1	188	185	186	185	0	185
Total	1352	6	9	1343	1326	1340	1315	561	754

# Tube Room Inventory - UM Tubes

Total # of Tubes	Lost	Bent	T1 <sub>ok</sub>	T2 <sub>ok</sub>	$DC_{ok}$	Passed All	In Chamber	Ready	Total Number	
									in Tube Room	
2797	6	17	2781	2474	2628	2454	580	1874	2217	

Mod 37 is ready, mod 38 is almost ready.