

Tube Room Update

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Delivery:

- ▶ MSU delivered 100 tubes last Thursday. 0 Bent.
- ▶ Next delivery is this Friday Feb 3rd.

Tube Testing:

- ▶ Mod 37 was delivered to High bay last week. Mod 38 is ready and covered in Tube Room.
- ▶ There are enough good tubes for Mod 39.
- ▶ Only 100 MSU tubes from different dates still need leak test.
- ▶ Most tubes just need to be cleaned and ordered.

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

- ▶ 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

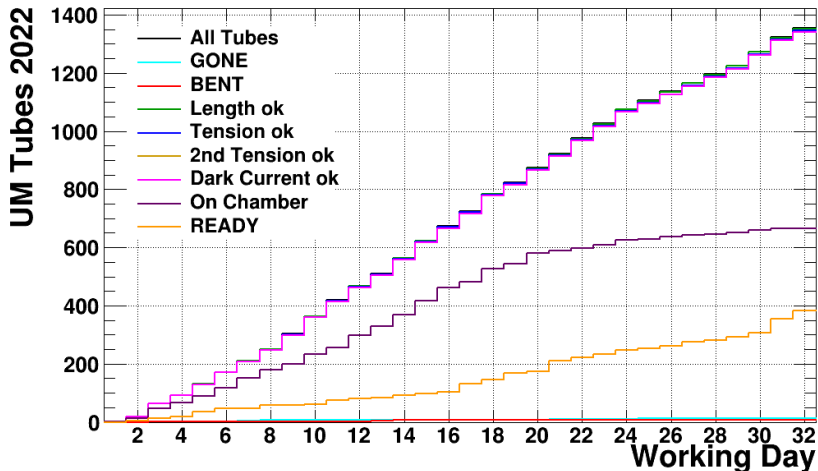
- ▶ 1,236 MSU Tubes + 755 UM Tubes = **1,991 Total Ready**
- ▶ Accounting for Mod 37 and 38:

$$1,991 - 464 - 464 = \mathbf{1,063 \text{ Ready After 37, 38}}$$

- ▶ Rough manual count showed ~ 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	LT _{ok}	T1 _{ok}	T2 _{ok}	DC _{ok}	Passed All	In Chamber	Ready
(UM tubes this row)	1353	5	9	1353	1344	1333	1342	1322	561	761
2022-10-28	503	0	0	503	492	473	500	470	354	116
2022-11-04	100	0	1	100	100	90	100	90	10	80
2022-11-18	200	0	0	200	199	189	200	189	9	180
2022-11-25	300	0	0	300	298	256	299	255	0	255
2022-12-02	195	0	0	195	194	166	195	166	0	166
2022-12-09	100	0	2	100	100	91	99	91	0	91
2023-01-06	200	0	0	200	198	189	200	189	0	189
2023-01-13	200	0	5	200	199	182	200	182	0	182
2023-01-20	150	0	0	150	150	0	147	0	0	0
Total	3301	5	17	3301	3274	2969	3282	2954	934	2020

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.