

L=1
RPS=1

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
761	12/11	22:33	1:47	HOME	144K	Y	Y	COSMICS
762	12/12	01:58	3:54	HOME	196K	Y	Y	COSMICS COSMICS
763	12/12	03:54	04:16	HOME	25K	Y	Y	COSMICS.
764	12/12	04:18	04:31	CARBON	9K	Y	Y	COSMICS COSMICS CHECKINGS
765	12/12	04:33	06:45	"	114K	Y	Y	COSMICS CHECKINGS
766	12/12	06:45	07:37	"	46K	Y	Y	"
767	12/12	07:44	10:26	HOME	120K	Y	Y	COSMICS
768	12/12	10:34	13:16	HOME	114K	Y	Y	COSMICS
769	12/12	13:18	15:58	HOME	114K	Y	Y	"
770	12/12	16:01	18:38	HOME				"
771	12/12	18:39	20:56	"				"
772	12/12	20:57	23:07	"				"
773	12/12	23:08	01:17	"	107K	Y	Y	"
774	12/13	01:19	01:22	"				STARTED BY CLICK ON WRONG PLACE WAITING FOR TUNE-BEAM. 15M MORE THIS RUN
775	12/13	01:46	04:03	"	100K	Y	Y	COSMICS (NO TUNE-BEAM)
776	12/13	04:05	04:40	"	450K	Y	Y	COSMICS + TUNE
777	12/13	04:40	05:13	"	529K	Y	Y	" "
778	12/13	05:15	05:34	"	479K	Y	Y	" " PS3=2
779	12/13	05:36	8:37	"	303K	Y	Y	" " PS3=10
780	12/13	8:42	14:21	"	413K	Y	Y	" " PS3=1

STARTED AMM
STARTED AMM

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
801				"				
802				"				
803				"				
804	12/14	01:26	01:39	"				BEAM CENTERED
805	12/14	01:52	02:20	CARBON	25 K			PS1 = PS2 = PS3 = 1 PS8 = 500
806	12/14	02:34	02:42	"	263 K			CHANGED PS8 = 200 x = 2.15 y = 3.25
807	12/14	02:45	02:52	"	244 K			300 0.15 3.25
808	12/14	02:55	03:00	"	97 K			300 0.15 1.25
809	12/14	03:07	03:12	"	97 K			300 2.15 1.25
810	12/14	03:14	03:20	"	118 K			300 1.15 2.25
811	12/14	03:32	03:54	OPTICS	1687 K	Y	Y	OPTICS
812	12/14	03:55	04:04	CARBON	206 K	Y	Y	pointing
813	12/14	04:05	04:08	"	34 K			ALL PS=0, BUT PS=500 500 BCM
814	12/14	04:09	04:18	"	110 K	Y	Y	
815	12/14	04:54	05:25	"	376 K			load beam
816	12/14	05:28	05:45	"	138 K			PS1 = 1 BCM Trigger check
817	12/14	05:46	05:55	"	21 K			PS2 = PS3 = 1 BCM BCM PS8 = 500
818	12/14	05:59	06:15	"	190 K			PS2 = PS3 = 1 Trigger check BCM
819	12/14	06:15	06:30	"	110 K			PS3 = 1 Trigger Test BCM
820	12/14	06:37	06:42	"	130 K			FADC RAW PS1 = PS2 = PS3 = 1

HARPSCAN
x=1.15, y=2.25

BCM

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
821	12/14	07:10	07:30	CARBON	575 K			RASTER OFF PS1=PS2=PS3=1
822	12/14	07:45	8:09	OPTICS	4.3M			RASTER OFF OPTICS PS1=PS2=PS3
823	12/14	08:18	8:43	Dummy	4.5 M			RASTER ON, Dummy
824	12/14	08:46	08:48	Dummy	310 K			FADC raw mode check PS1=1
825	12/14	08:49	09:03	Dummy	2.3 M			Raster on, Dummy
826	12/14	14:40	14:42 14:42	Hole Carbon	110K			Raster 2X2, Carbon Hole.
827	12/14	17:16						check TS scaler. PS 8=100
828								Test
829								Junk RUNS
830	12/14	19:29	19:38	Hole Carbon	5932			
831	12/14	23:42	23:45	Hole Carbon	1100-2		x=1.15 y=2.25	Sieve slit in, Beam centering
832	12/15	00:28	00:47	C-HOLE				BEAM CENTERING X=1, Y=2.1
833	12/15	00:54	01:03	"				X=1, Y=2
834	12/15	01:05	01:09	"				1 2.15
835	12/15	01:12	01:20	"				1 2.4
836	"	01:29	01:36	C SINGLE				RASTER CHECK, SINGLES, OXO
837	"	01:37	01:43	"				1x1
838	"	01:44	01:49	"				2x2
839	"	01:53	01:57	"				3x3
840	"	01:58	02:13	"				COSMICS

MOMENTUM
2.14 GeV

Some hole runs
ended twice.

Beam centering
2x2

SJA

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
841	12/15	02:14	02:20	C SINGLE				RASTER SIZE CHECK 4X4
842	12/15	02:24	02:37	OPTICS	1M	Y	Y	RASTER OFF, OPTICS 10 VA
843	"	02:39	02:52	"	1.2M	Y	Y	OPTICS RASTER ON 2.5' X 2
844	"	02:57	03:06	"				" " " "
845	"	02:13		OPTICS			ABORTED	BOILING STUDY PS1=PS2=PS3=8 A=22.2 MA RASTER ON
846	"	03:13	03:16	OPTICS	202 K			BOILING STUDY PS1,2,3=8 A=22.2 VA
847	"	"	"	"	"	"	ABORTED	" " PS1,2,3=20 A=
848	"	03:19	03:22	"	100 K			" " PS1,2,3=20 A=22.5 VA
849	"	03:24	03:25	"	100 K			" " PS1,2,3=5 A=15 VA
850	"	03:28	03:31	"	100 K			" " " = 5 A=10 VA
851	"	03:37	03:40	"	114 K			" " " = 2.5 VA
852	"	"	"	"	"	"	ABORTED	" " " = 2
853	"	03:44	03:49	"	55 K			" " " = 1 1 VA
854	"	03:49	03:52	"	28 K			" " " = 1 1 VA
855	"	03:54	03:56	"	32 K			" " " = 2 5 VA
856	"	03:58	04:00	"	74 K			" " " = 2 5 VA
857	"	04:10	04:17	DUMMY	89 K			" " " = 1 1 VA SIEVE ON
858	"	04:18	04:22	"	105 K			" " " = 1 2.5 VA " "
859	"	04:24	04:26	"	100 K			" " " = 1 5 VA " "
860	"	04:27	"	"	"	"	"	" " " = 2 5 VA " " ABORTED

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
861	12/15	04:29	04:30	Dummy	100K			BOLLING STUDY PS1,2,3=2, 10uA 5000
862	"	04:32	04:33	"	34K			" " " " " " =3, 15uA
863	"	04:33	04:35	"	107K			" " " " " " =5, 15uA
864	"	04:37	04:39	"	107K			" " " " " " =10, 22.5uA
865	"	04:51	05:09	C-SINGLE	351K	Y	Y	OPTICS RASTER OFF, 10uA PS1=PS2=PS3=1
866	"	05:11	05:21	"	95K	Y	Y	OPTICS RASTER ON " " " " Maint Trip
867	"	05:46	05:57	"	200K	Y	Y	" " " " " "
868	"	06:05	06:11	C-HOLE	29K		X=1 Y=2.4	BEAM CENTERING (RASTER 2.5x2 MC) (HALLA 2x2)
869	"	06:28	07:45	C-MULTI	2M	Y	Y	OPTICS RASTER RASTER OFF 2.14 Gyr
870	"	07:47	09:04	"	2.1M			" RASTER ON
871	"	09:45	09:49	Dummy	600K			Prescale Prescale setup
872	"	09:50	09:51	Dummy	200K			"
873	"	09:53	09:56	Dummy	700K			"
874	"	09:56	09:59	Dummy	640K			"
875	12/15	09:59	10:15	Dummy	2.1M			PS1,2,3=24, 24uA
876	12/15	10:23	10:39	Dummy	2.1M			PS1,2,3=16, 15uA 6% dead
877	12/15	10:41	10:56	Dummy	2M			PS1,2,3=10, 10uA 8% dead
878	12/15	11:00	11:10	Dummy	560K			PS1,2,3=5, 5uA 7% dead
879	12/15	11:38	12:36	Dummy	2M			PS1,2,3=5, 5uA
880	12/15	12:42	12:45	Dummy	406K			FADC with threshold test

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
881	12/15	12:51	13:07	Dummy	1.4 M			PS-1,2,3=2 2.5 μ A 6% dead
882	12/15	14:29	14:29	Home	115			No beam, daq fix
883	12/15	14:30	15:03	Home	24 K			No beam
884	12/15	16:42		C-hole				Beam center check
885								
886	12/15	5:30pm		Empty				T1=1 fadc Test Other=0
887	12/15	5:32pm		Empty	13.2x10 ⁵			T2=1 f fadc Test Other=0
888	12/15	5:33pm		Empty				T3=1 fadc test Other=0
889	12/15	5:35pm		Empty	200K			22.5MA Boiling Study $P_{S1}=7$ $P_{S2}=100=0$
890	12/15	5:40pm		Empty				22.5MA Boiling Study $P_{S1}=20$ $P_{S2}=20$
891	12/15	5:40pm		Empty cell	1.03M			22.5MA Boiling Study $P_0=2.0$ GeV
892	12/15	5:50		Empty cell				Junk = Checking 601
893	12/15	5:50		H target				To high Rate - 22.5MA $P_{S1}=P_{S2}=P_{S3}=20$ → 8 min.
894	12/15	5:57	6:06	H Target	1.13M			22.5MA Boiling Stud $P_{S1}=P_{S2}=P_{S3}=40$
895	12/15	6:07	6:30	H Target	2.5M			22.5MA boiling study $P_{S1}=P_{S2}=P_{S3}=40$
896	12/15	6:30		H target				15 MA boiling stud Nitrogen $P_{S1}=30$ $P_{S2}=30$ $P_{S3}=30$ 10 min
897	12/15	6:43	6:56	H target			PS=20	10 MA boiling Study $P_{S1}=20$ $P_{S2}=20$
898	12/15	6:56	6:56	H target				To high Pd reactor 5 MA boiling study $P_{S1}=20$
899	12/15	6:58	7:08	H target			PS=10	5 MA boiling Study PS 10
900	12/15	7:11						Tripped

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
901	12/15	7:15		Hydrogen			PS=5	Boiling Study 2 MA ~10 min (note)
902	12/15	7:49	20:04	Tritium	1.6 M		PS=5	Boiling Stud 2.5 MA ~15 min
903	12/15	20:13		Tritium	—	To high PT	—	Boiling Study 2.5 MA 20 min ^{PS=5}
904	12/15	20:16	20:16	Tritium	2.2 M		PS=7	Boiling Study 2.5 MA ~75 min ^{PS=7}
<u>905</u>								
906				Tritium			PS=1	Boiling Study 2 MA
907	12/15	20:41	20:57	Tritium	1.13 M		PS=1	Boiling Study ~1 MA ^{PS=1}
908	12/15	20:58	21:06	tritium			PS=20	Boil 10 μA ^{15 min}
909	12/15	21:06	21:27	T2			PS=20	Boiling 10 μA ^{15 min}
910	12/15	21:30	21:42	T2			PS=20	15 μA
911	12/15	21:45	21:58	T2	1.2 M		PS=40	22.5 μA ^{PS=40}
912	12/15	22:07	22:19	3He			PS=40	Boiling 20.5 MA ^{PS=40}
913	12/15	22:24	22:38	3He	1.5 M		PS=20	Boiling Study 15 MA ^{PS=23}
914	12/15	22:40	22:50	3He	1.16 M		PS=14	Boiling Study 10 MA ^{PS=16}
915	12/15	22:54	23:06	3He	1.08 M		PS=7	Boiling Study 5 MA ^{PS=3}
916	12/15	23:09	23:21	3He	1.10 M		PS=3	Boiling Study 2.5 MA
917								
918	12/15	23:28	23:37	2H	1.8 M		PS=5	Boiling Study 5 MA
919	12/15	23:40	23:48	2H	1.29 M		PS= 3	Boiling Study 10 MA ^{2.5}
920	12/15	00:01	00:43	2H	4.6352		PS= 40 PS=20	Boiling Study 15 MA ¹⁰

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
921	12/15	00:14	00:12	$2H$	1.63M			Boiling Study 21.5 MA
922								Boiling Study 15 MA
923	12/16	00:23	00:31	$2H$	1.0M		PS=40	Boiling Study 22.5 MA
924	12/16	00:32	00:47	Empty	803K		PS=5	Boiling Study 5 MA
925	12/16	00:52		Carbon	895K		PS=5	Boiling Study 5 MA
926	12/16			Carbon hole		Beam Centering		Beam Centering
927	12/16			Carbon hole				Beam Centering
928	12/16			Carbon hole				Beam Centering
929	12/16							Beam Centering
930	12/16							Beam Centering
931	12/16							Beam Centering → Raster Target.
932	12/16	4:00	3:59	Tritium	101K		PS=1	Rates Checking w/ 5 MA
933	12/16	4:03	4:36	Tritium	3.61M		PS=1	Production Data!! Quasi Elastic! 1.86eV 2.16eV
934	12/16	4:42	4:	$3He$	3.11M	Background	PS=1	Production Data!! Quasi Elastic!
935	12/16	5:19	5:50	Empty Cell	1.68M	Background	PS=1	" " " !!
936	12/16			Dummy				
937	12/16			Dummy				
938	12/16	5:57	6:08	Dummy	1.1M		PS=5	Background
939	12/16							Beam Centering
940	12/16	6:20	6:32	Single foil Carbon	296K		PS=5	Pointing Study

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
941	12/16	6:39	7:10	Hydrogen	4.2M	✓	PS=1	Production
942	12/16	7:14	7:44	Deuterium	2.9M	✓	"	Production - 10 min beam trip
943	12/16	7:50	7:57	Deuterium	906k	✓		Weird BPM steering
944	12/16	7:58	8:12	Deuterium	1.82M	✓	"	Production
945	12/16	8:21	8:33	Deuterium	1.48M	✓	PS=1	Resonance Scan Δ fl. 80% betri
946	12/16	8:38	8:58	Tritium	2.3M	✓	PS=1	Target change (12), Δ Resonance Scan
947	12/16	9:05	9:05	He-3	1.97M	✓	PS=1	Helium-3 Target, Δ Res. scan
948	12/16	9:36	9:43	Optics	1.05M	✓		Optics Run, Δ Resonance Scan
949	12/16	9:55	10:06	Tritium	7.6k		x x	Tritium, $P_0 = 2.08 \text{ GeV}$ / No Data / No Beam
950	12/16	10:28	10:35	Carbon Hole	10.7k		✓	Carbon Hole / Beam spot check
951	12/16	10:39	10:40	Carbon Hole	1k		x	Beam Spot check
952	12/16	10:45	10:49	C-hole	5k		x	Beam Spot check
953	12/16	11:22		Carbon Hole				Beam Spot check
954	12/16	11:43						
955	12/16	11:59	12:08	carbon hole	331k			beam centering
956	12/16	12:10	12:13	Carbon Hole	2k			beam tuning
957	12/16	12:20	12:21	Home	386		✓	Move back to (1,24) For BPM, raster 2x2
958	12/16	12:35	12:40	Carbon Hole	5k			Carbon Hole, beam steering, tune
959	12/16	12:44	12:46	Carbon Hole	2.3k			4x4 raster, tune Beam
960	12/16	12:47	12:50	Carbon Hole	3k			shifted Beam spot

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
961	12/16	12:50	12:55	Carbon Hole	5.2k	—		Beam tune, spott ++
962	12/16	13:09	13:13	Carbon Hole	4.9k	×	✓	Spot ++, beam tune
963	12/16	13:38	13:43	Carbon Hole	5.3k			Beam Spot moving
964	12/16	13:49	13:54	Carbon Hole	5.9k	×	×	Beam Spot recheck
965	12/16	14:03	14:12	Carbon Hole	9.3k	—	—	Target shift By D. melting
966	12/16	14:13	14:16	Carbon Hole	3.6k	—	—	" " "
967	12/16	14:22	14:24	Raster Target	2.5k	—	—	Raster Target
968	12/16	14:32	14:34	"	2.1k			" "
969	12/16	14:38	14:40	Home	887	—	—	Home - no target
970	12/16	14:46	14:54	Optics	—	—	—	Optics Target - <u>no beam</u>
971	12/16	15:03	15:14	Optics	26.8k			Optics Target - CW Beam
972	12/16	18:52	18:54	Optics			✓	
973	12/16	19:24	19:28	C-hole		—	✓	no no no visible WRONG POSITION?
974	12/16	19:44	19:50	Carbon hole		—	✓	No hole
975	12/16	19:52	20:00 20:04	"		—	✓	4x4 raster no hole
976	12/16	20:06	20:09	"				still searching
977	12/16			"		—	✓	
978								
979								
980								

Target + 58 sec

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1062								
1063								
1064								
1065								
1066								
1067								
1068								
1069								
1070								
1071								
1072								
1073	1/12/17	00:30	00:31	C-hole	9344	spot	ok	
1074	"	00:35	00:40	C-hole	119274	spot	ok	
1075	"	00:41	00:43	"	100774	spot	ok	
1076	"	00:48	00:51	"	297623	spot	ok	
1077	"	00:55	1:00	"	165982	spot	ok	
1078	"	1:07	1:27	"	170K	spot	ok	
1079	"	1:27	2:10	"		spot	ok	
1080	"					spot	ok	
1081	"			"		spot	ok	

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1102	1/12/18	8:12		C-hole	500 ~500			C-hole centering
1103		8:35		C-hole	~5000			C-hole centering
1104		8:41		C-hole	~5000			C-hole centering
1105		8:47		C-hole	~5000			C-hole centering
1106		8:45 9:45		C-hole	~5000			C-hole centering
1107		9:58		C-hole	~5000			C-hole centering
1108		10:00		C-hole	~5000			C-hole centering
1109		10:27		C-hole	~5000			C-hole centering
1110		10:38		C-hole	31K			Harp scan
1111		13:12	13:27	C-hole				Harp scan
1112		13:30	13:50	C-hole				Harp scan (PS ^{set} = 100)
1113		13:		C-hole				Harp scan
1114		14:48	14:49	C-hole				Junk
1115		14:57	15:00	C-hole				C-hole centering
1116		15:07		HOME	130K			HOME ticket spot run
1117		15:23	15:36	HOME multifoil	300K			Multifoil optics
1118		16:01	16:09	home	7K			centering (1.8, 1.0), (3.2, 1.5)
1119								
1120								
1121		18:10	18:13 18:10	home	7K			FITDC config change test

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1142	1/13	9:39	9:58					Test dummy run
1143	1/13	10:27	10:35	C-hole	50K			check spot & see hole
1144	1/13	10:37	10:53	C-hole	50K			raster off run
1145	1/13	11:19	11:15	C-hole				waldding hole move 2x2 raster
1146	1/13	11:18	11:35	C-hole	20K			Increase Y raster to 3
1147	1/13	11:27	11:29	C-hole				move beam target 1 mm
1148	1/13	11:31	11:34	C-hole	8K			Move beam in Y 1 mm
1149	1/13	11:37	11:43	C-hole				Moved beam in X to 3.7
1150								Moved beam in X to 4.0
1151								
1152	1/13	11:59	12:01	C-hole	35K			Moved beam Y to 0 ^{target} to 0 mm
1153	1/13	12:06	12:08	C-hole	15K			Moved beam ^{target} another 0.5 mm
1154	1/13	12:10	12:12	C-hole	10K			Moved beam X to 3.0
1155	1/13	12:14	12:16	C-hole	10K			Moved beam to X = 3.2
1156	1/13	12:43		C-hole	5K			change raster to x x Y 1.0 x 3.5
1157	1/13	12:47	12:50	C-hole	7K			Repeat
1158	1/13	12:53						Beam X to 3.3, Y to 0.2
1159	1/13	13:23	13:33	C-hole				Harp scan run
1160	1/13	13:48		C-hole				BPM Pedestal
1161	1/13			Home				Bullseye scan JUNK (no beam)

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1162	1/13	14:11		Home				Bullseye scan
1163	1/13	15:50		Home				Bullseye "
1164	1/13	16:29		Home				" "
1165	1/13	16:39		"				scan 2
1166								
1167								
1168								
1169								
1170								
1171								
1172								
1173								
1174								
1175								
1176	1/14	12:22	-	dummy				dummy target, dead time check
1177	1/14	-	-	dummy				"
1178	1/14	-	-	dummy				"
1179	1/14	-	-	dummy				"
1180	1/14	-	-	C-foil		online replay		detector checkout runs $PS(1,1,1)$
1181	1/14	-	-	"				detector checkout run $PS(0,1,1)$

Jun 2018

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1202								
1203	14 Jan 2018	8:45	8:58	Raster Raster	11000	spot2	L only	Vary Beam spot / ^{beam on} Per 2 min only
1204	14 Jan/18	9:00	9:06		4000			Beam off
1205	1/14/18	9:10		Raster	3000			1 Hz = T2
1206	1/14/18	9:24	09:34	Home	13K			T2 = 1 Hz
1207	1/14/18	9:40	09:50	C	143 K	Yes	✓	10 μ A T2 = 47 Hz ddt = 1%
1208	1/14/18	9:54	10:06	Optics	1.16M	Yes	✓	dt time left = 6%
1209	1/14/18	10:09	10:39	Empty Cell	1.34M	✓	✓	20 μ A, dT = 3%
1210	1/14/18	10:41	11:12	³ He	2.24M	✓	✓	20 μ A
1211	1/14/18	11:13	11:43	³ He	1.84M	✓	✓	20 μ A dT = 3%
1212	1/14/18	11:44	12:04	³ He	1.36M	✓	✓	dT = 3%
1213	1/14/18	12:17	12:40	(¹ H) ₂	2.08M	✓	✓	20 μ A dT = 4%
1214	1/14/18	12:43	13:22	(² H) ₂	2.28M	✓	✓	20 μ A dT = 4% 5%
1215	1/14/18	13:25	13:55	(³ H) ₂	3.09M	✓	✓	20 μ A dT = 5%
1216	1/14/18	13:56	14:26	(³ H) ₂	3.15M	✓	✓	20 μ A dT = 6%
1217	1/14/18	14:31	15:00	Empty Cell	1.55M	✓	✓	20 μ A dT = 3%
1218	1/14/18	15:10		³He HT				20 μA Test FADC
1219	1/14/18	15:10	15:40	³ He	1.61M	✓	✓	ignore FADC comment
1220	1/14/18	15:41	16:11	³ He	1.61 M	✓	✓	20 μ A dT = 4%
1221	1/14/18	16:12	16:50	³ He	1.61M	✓	✓	20 μ A dT = 2%

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1222	1/14/18	16:55	17:29	1H	3.2M	✓	✓	20uA dT=4%
1223	1/14/18	17:33	18:09	2H	3.25M	✓	✓	20uA dT=5%
1224	1/14/18	18:12	18:48	3H	3.2M	✓	✓	20 uA dT=5%
1225	1/14/18	18:52	19:42	3H	3.5M	✓	✓	20 uA dT=4%
1226	1/14/18	21:41	21:44	C hole		✓	✓	10 uA XA=1.6 YA=0.5 XB=3.3 YB=0.0
1227	1/14/18	21:45	21:51	C hole		✓	✓	10 uA "
1228	1/14/18	22:00	22:03	C-hole		NO	NO	10 uA XA=1.6 YA=0.5 XB=3.4 YB=0.0
1229	1/14/18	22:06	22:13	C hole				10 uA XA=1.6 YA=0.5 XB=3.2 YB=0.0
1230	1/14/18	22:15	22:20	C-hole		✓	✓	BPHA=x=1.6 y=0.5 BPHB=x=3.2 y=0.0 Hole centering.
1231	1/14/18	22:26	22:47	Optics	1.1M	✓	✓	10 uA, dT=2.4%
1232	1/14/18	22:52	22:56	Carbon	1.19M	✓	✓	Carbon 20 uA PS1=PS2=PS3=1
1233	1/14/18	22:57	23:07	Carbon	1.3M	✓	✓	Carbon 20 uA PS1=10 PS1=PS2=PS3=1
1234	1/14/18	23:09	23:16	Carbon	1.8M	✓	✓	Carbon 20 uA PS1=PS2=PS3=1 PS8=10
1235	1/14/18	23:23	23:53	Empty	0.9M	✓	✓	Empty cell 20 uA PS1,2,3=1, dT=1.5%
1236	1/14/18	00:57	00:32	³ He		✓		³ He 20 uA PS1=2=3=1
1237	1/15/18	00:33	00:55	³ He		✓	✓	³ He 20 uA "
1238	1/15/18	1:00	1:30	³ He		✓		"
1239	1/15/18	1:30	2:02	³ He	1.2M	✓		"
1240	1/15/18	2:42	-	3He 1H		✓	✓	3He 20 uA
1241	1/15/18	3:20	3:46	1H	1.4M	✓		1H 20 uA

θ = 19.155°

ng.

PS1=PS2=PS3=1
PS8=10

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1242	1/15/18	3:51	4:16	D ₂	1.4M	✓		D ₂ 20 μA
1243	1/15/18	4:17	4:47	D ₂	1.7M	✓		D ₂ 20 μA
1244	1/15/18	—	—	—	—	—	—	3H 20 μA Junk
1245	1/15/18	5:03	5:15	T ₂		✓		3H 20 μA
1246	"	5:16	5:41	T ₂		✓		3H "
1247	"	5:45	6:12	T ₂	1.5M	✓		"
1248	"	6:12	6:50	T ₂		✓	✓	"
1249	"	6:51		empty cell				empty cell 20 μA.
1250	"	7:35	08:00	3He	1.07M			3He 20 μA
1251	1/15/18	08:01	08:13	3He	0.48M	no	3 spot L	20 μA dT = 2 1/2 Replay froze
1252		08:17	08:18	3He			5 OK	Junk / koda → stat koda
1253								COOL
1254								↓
1255			11:41	Cosmics	10K			Cosmics
1256		11:42	11:53	C-hole				5 μA no beam
1257		11:54	12:04	C-hole	43K			spot L OK
1258		12:14	12:24	3He	0.3M	Yes	OK	20 μA dT = 6% → 9% LHRStart
1259		LHRStart Buff						configure LHRStart Buff
1260		12:27	12:53	3He	0.812M	✓	✓	20 μA dT = 3%
1261	1/15/18	12:54	13:14	3He	1.05M	✓	OK	20 μA

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1262	1/5/2018	13:18	13:44	3He	0.9M	✓	✓	20µA dT=3%
1263	1/5/2018	13:47	14:14	(1H) ₂	1.39M	✓	✓	20µA dT=3%
1264	↓	14:15	14:40	(1H) ₂	1.10M	✓	✓	20µA dT=3%
1265	↓	14:43	15:04	(2H) ₂	1.37M	✓	✓	20µA dT=4%
1266	↓	15:04	15:24	2H	1.15M	✓	✓	20µA dT=3%
1267	↓	15:27	15:48	3H	1.35M	✓	✓	20µA dT=3% Tritium!
1268	↓	15:49		3H		✓	✓	20µA dT=3%
1269	↓			c-hole				10µA
1270	↓			c-hole				10µA
1271	↓	18:32	19:04	3H	0.4M	✓	✓	20µA dT=1%
1272	↓	19:15	19:39	3H	1.35M	✓	✓	20µA dT=4%
1273	↓	19:40	20:06	3H	1.35M	✓	✓	20µA dT=4%
1274	↓	20:15	20:35	Dummy	0.73M	✓	✓	5µA dT=3%
1275	↓			c-hole				10µA
1276	↓	21:00	21:18	Dummy	0.94M	✓	✓	10µA dT=3%
1277	↓	21:20	21:35	Optics	0.49M	✓	✓	10µA dT=2%
1278	↓	21:39	21:54	Home	18K	✓	✓	20µA dT=1%
1279	↓	22:01	22:12	Carbon	0.16M	✓	✓	20µA dT=1%
1280	↓	22:13	22:20	Carbon	1.7M			20µA dT=78% Clock
1281	↓	22:23	22:57	Empty Cell	0.63M	✓	✓	20µA dT=1%

↓
=20.6
New
style

15 Jan 2018

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1282	01/15	23:01	23:32	^3He	0.36M	✓	✓	20 μA $dT = 2\frac{0}{2}$
1283	01/15	23:38	00:20	^3He	-	✓		20 μA $dT = 2\frac{0}{2}$
1284	01/16	00:20	1:48	^3He	1.3M	✓		" "
1285	01/16	-	-	^3He	-	✓		20 μA "
1286	01/16	-	-	H_2	-	✓		20 μA "
1287	01/16	2:18	2:46	H_2	~1M	✓		20 μA "
1288	01/16	2:51		D_2	~1M	✓		20 μA "
1289	01/16	3:27	4:05	D_2	~1M	✓		20 μA "
1290	01/16	4:10		T_2	~1M	✓	✓	20 μA "
1291	01/16	4:37	5:04	T_2	~90K	✓		20 μA "
1292	01/16	5:05	5:36	T_2	~110K	✓		20 μA "
1293	01/16	5:38	6:00	T_2	~60K	✓		20 μA (beam ^{Run} stopped)
1294	01/16	6:06	6:45	T_2		✓		20 μA "
1295	01/16	6:51		Empty		✓		20 μA
1296	01/16	7:31	08:02	^3He	726K	✓	✓	20 μA $dT = 2\frac{0}{2}$
1297	01/16	08:03	08:34	^3He	736K	✓		20 μA $dT = 2\frac{0}{2}$
1298	01/16/2018	08:35	09:06	^3He	692K	✓	✓	20 μA $dT = 2\frac{0}{2}$
1299	01/16	09:07	09:56	^3He	644K	✓	OK	20 μA
1300	01/16	10:00	10:26	$(^1\text{H})_2$	766K	✓	OK	20 μA
1301	01/16	10:27	10:57	^1H	578K	✓	OK	20 μA $dT =$

16 Jan 2018

Left

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1302	16 Jan 18	12:17	12:43	Cosmics	17K			Hut check
1303		12:43	12:50	cosmics	764			
1304		12:53	12:54	Cosmic	173			Home
1305		12:55						
1306		12:58						
1307		13:01						
1308		15:						
1309								
1310		15:06	15:19					Home - Target
1311								EB a Dag not responding
1312	16 Jan 18	15:25	15:43	C-hole	35K			10µA C-hole
1313	16 Jan 18	15:58	16:25	(² H) ₂	530K			Deuterium, ran for 15 min, beam down
1314	16 Jan 18	17:07	17:08					test start of run, no beam
1315		17:23		2H				test, no beam
1316								test, no beam
1317		17:23	17:32	² H	6K			test code, no beam
1318		17:35	18:29	² H	38.5K			cosmics, no beam
1319		18:34	18:46	C-hole	9K			cosmics, no beam
1320		18:46	18:55	C-hole	11.5K			cosmics, beam returning
1321		19:12	19:17	C-hole	131K			spot checking after

> 1 hr downtime

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1322	1/16/18	19:27	19:36	D ₂	264K	✓	✓	production, 20 20 μ A, asked to
1323	"	19:42	19:57	D ₂	235K	✓	✓	production, 20 μ A, left dipole issue
1324	"			C-hole				spot check after left dipole problem
1325	1/17	3:20	3:32	=	100K 30K	-	-	
1326	=	3:40	4:14	D2	281K	-	-	D2 target w/ 20 μ A
1327	=	4:21	5:26	D2	1340K	✓	-	D2 target, I=10 μ A
1328	=	5:27	6:20	D2	1073K	✓	✓	D2 target, I=10 μ A
1329	=	6:23	7:31	T2	650K	✓	✓	T2 target, I=10 μ A
1330	=	10:07	10:10	C-hole	20K			spot checked
1331	"	10:25	10:58	T2	426K	✓	✓	Erratic Beam
1332	"	11:56	11:58	C-hole	11K			spot good
1333	"	12:07	12:29	T2	513K	✓	✓	~20 μ A
1334	"	12:30	12:55	T2	506K	✓	✓	"
1335	"	12:55	13:09	T2	504K	-	-	"
1336	"	13:09	13:24	T2	546K	-	-	"
1337	"	13:24	13:42	T2	503K	✓	✓	"
1338	"	13:42	13:58	T2	600K			"
1339	"	13:59	14:02	T2	100K			"
1340	"	14:21	14:24	C-hole	7K			Kin S - 10 μ A looks good
1341	"	15:13	15:18	C-hole	8K			look good " 10 μ A

asked to stop beam b/c of Right arm target problems

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1342	✓ 1/17/2018	15:20	15:34	Dummy	320K	✓	✓	
1343	"	15:38	15:49	Optics	162K			
1344	"	15:51	16:02	C Foil	70K			
1345	"	16:03	16:08	C foil	1.4M			PS 8 = 10, all other = 0
1346	"	16:13		Empty				
1347	"	16:41	17:54	³ He	0.72M	✓	✓	20μA dT = 1%
1348	✓	17:58	19:05	³ H	0.96	✓	✓	22μA dT = 1%
1349	✓			C-hole	5K	✓	✓	10μA
1350	"	19:24 19:50	19:50	² H	0.51M	✓	✓	22.5μA dT = 1%
1351	"	19:57	20:30	² H	0.49M	✓	✓	22.5 μA dT = 1%
1352	"	20:34	21:18	³ He	0.35M	✓	✓	22.5 μA dT = 1%
1353	"	20:19	21:57	³ He	0.43M	✓	✓	22.5 μA dT = 1%
1354	"	22:01	22:36	³ H	0.49M	✓	✓	22.5 μA dT = 1%
1355	"	22:37	23:13	³ H	0.45M	✓	✓	22.5 μA dT = 1%
1356	"	23:18	00:06	³ He	0.5M	✓	✓	22.5 μA dT = 1%
1357	01/18	00:06	00:59	³ He	0.6M	✓	✓	22.5 μA dT = 1%
1358	01/18	01:05	01:42	³ H	0.5M	✓	✓	22.5 μA dT = 1%
1359	"	01:42	02:20	³ H	0.57M	✓	✓	22.5 μA dT = 1%
1360	"	02:25	02:51	EMPTY	0.21M	✓	✓	22.5 μA dT = 1%
1361	"	03:12	03:28	C-HOLE	22K	✓	✓	10 μA, KJN 7 dT = 1%

Kin 7
→

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1362	01/18	03:32	03:52	Dummy	179K	✓	✓	10kA dT=1%
1363	"	03:53	04:06	OPTICS	88k	✓	✓	10kA dT=1%
1364	"	04:09	04:22	C	48k	✓	✓	22.5kA dT=1%
1365	"	04:22	04:35	C	3M	✓	N/A	22.5kA, PS1-7=0, PS8=10 dT=78%
1366	"	04:39	05:18	EMPTY	163k	✓	✓	22.5kA, PS1-3=1, PS4-8=0 dT=1%
1367	"	05:20	06:16	³ He	231k	✓	✓	22.5kA, lot of beam trips dT=1%
1368	"	06:17	06:52	³ He	200k	✓	✓	22.5kA dT=1%
1369	"	06:57	07:39	³ H	300k	✓	✓	22.5kA dT=1%
1370	"	07:39	8:17	³ H	257k	✓	✓	22.5kA dT=1%
1371	"	8:21	8:55	² H	240k	✓	✓	22.5 "
1372	"	8:56	9:29	² H	250k	✓	✓	22.5μA "
1373	"	9:35	10:14	³ He	200k	✓	✓	22.5μA
1374	"	10:15	10:49	³ He	180k	✓	✓	22.5μA
1375	"	10:50	11:32	³ He	170k	✓	✓	22.5μA
1376	"	11:33	12:13	³ He	180k	✓	✓	22.5μA
1377	"	12:18	12:54	³ H	260k	✓	✓	22.5
1378	"	12:55	13:30	³ H	260k	✓	✓	22.5
1379	"	13:31	14:30	³ H =	200k	-	✓	beam off last 40 minutes
1380	"	15:13	15:45	C-hole	41k	-	-	10μA
1381	"	15:52	16:30	² H				

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments	
1382	01/18	16:30	17:06	^2H	0.22	✓	✓	22.5 mA	$dT = 1\%$
1383	"	17:27	18:07	^3He	0.20	✓	✓	22.0 mA	$dT = 1\%$
1384	"	18:07	18:18	^3He	0.05	✓	✓	22.0 mA	$dT = 1\%$
1385	"	19:07	19:18	C-hole	0.18	✓	✓	10 mA	
1386	✓	19:22	19:57	^3He	0.18	✓	✓	22.5 mA	$dT = 1\%$
1387	"	19:55	20:35	^3He	0.19	✓	✓	22.5 mA	$dT = 1\%$
1388	"	20:36	20:45	^3He	0.04	✓	✓	22.5 mA	$dT = 1\%$
1389	✓	20:47	21:22	^3H	0.25	✓	✓	22.5 mA	$dT = 1\%$
1390	"	21:23	21:57	^3H	0.24	✓	✓	22.5 mA	$dT = 1\%$
1391	BAD	22:01	—	Empty Cell	0.16	Co DA	CRASHED	22.5 mA	NO EVENTS
1392	"	22:11	22:46	Empty Cell	0.16	✓	✓	22.5 mA	$dT = 1\%$
1393	→	23:14	23:22	C-hole				20 mA	kin 9
1394	"	23:25	23:36	Optics	0.1M			22.5 mA	$dT = 1\%$
1395	✓	23:39	23:50	C	27k	✓	✓	22.5 mA	
1396	"	23:51	23:55	C	1M	✓	✓	22.5 mA	PS8=10
1397	01/18	23:59	00:23	DUMMY	242K	✓	✓	22.5 mA, ps 1-3 = 1	$dT = 1\%$
1398	01/19	00:26	01:03	EMPTY	90K	✓	✓	22.5 mA	$dT = 1\%$
1399	"	01:06	01:53	^3He	95k	✓	✓	22.5 mA	$dT = 1\%$
1400	"	02:45	02:59	C-HOLE	24k	✓	✓	22.5 mA	$dT = 1\%$
1401	"	03:00	03:20	C-HOLE	21k	✓	✓	22.5 mA	$dT = 1\%$

R90775

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1402	02/19	03:21	03:59	^3He	114k	✓	✓	22.5MA $dT=1\%$
1403	"	04:06	04:45	^3H	174k	✓	✓	22.5MA $dT=1\%$
1404	"	04:45	05:21	^3H	158k	✓	✓	22.5MA $dT=1\%$
1405	"	05:23	05:57	^2H	131k	✓	✓	22.5MA $dT=1\%$
1406	"	06:13	06:55	^2H	129k	✓	✓	22.5MA $dT=1\%$
1407	"	07:03	07:36	EMPTY	92k	✓	✓	22.5MA $dT=1\%$
1408	"	07:41	8:13	^3He	106k	✓	✓	22.5MA $dT=1\%$
1409	"	8:13	8:50	^3He	110k	✓	✓	22.5 "
1410	"	8:51	9:31	^3He	133k	✓	✓	22.5 "
1411	"	9:32	10:03	^3He	100k	✓	✓	22.5 "
1412	"	10:03	10:34	^3He	104k	✓	✓	22.5 "
1413	"	10:38	11:13	^3H	125k	✓	✓	22.5 "
1414	"	11:14	11:41	^3H	111k	✓	✓	22.5 "
1415	"	11:42	11:52	^3H	32k			Beam off target
1416	"	12:00	12:33	^3H	143k	✓	✓	22.5 "
1417	"	12:34	12:42	^3H	27k			Beam off target
1418	1/19	17:50	17:57	Carbon Hole	6k	—	—	Spot check; Beam Adjust
1419	1/19	17:59	18:19	Carbon Hole	14.5k	—	—	Spot check; No Beam
1420	1/19	18:44	—	Carbon Hole	32k	✓	—	Spot check
1421	1/19	19:13	19:15	^3H	—	✓	—	Production Start

Drop Run

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1422	1/19	19:17	20:04	^2H	157K 157K	✓	✓	Production Run. 1 ~ 30min in target
1423	1/19	20:05	21:02	^2H	44K	—	—	Tun K/b 1.5 min of beam
1424	1/19	22:07	22:23	Carbon Hole	25K	✓	—	Spot L check after 2 hrs down
1425	1/19	22:29	23:07	^2H	143K	✓	✓	Production <u>good</u>
1426	1/19	23:12	23:47	Empty Cell	100K	✓	✓	Empty Cell Run <u>good</u>
1427	1/19	23:51	00:33	^3He	120K	✓	✓	^3He Run
1428	1/20	01:10	1:49	^3He	116K	✓	✓	^3He Run
1429	1/20	01:49	02:50	^3He	34K	—	✓	Junk Run, Beam unstable
1430	1/20	02:07	02:44	^3He	118K	✓	✓	^3He Run
1431	1/20	02:44	03:25	^3He	118K	✓	✓	^3He Run
1432	1/20	02:26	03:51	^3He	60K	✓	✓	^3He Run short Run
1433	1/20	04:09	04:42	^3He	100K	✓	✓	^3He Run
1434	1/20	04:47	05:24	Tritium	150K	✓	✓	Tritium Run
1435	1/20	05:39	06:23	Tritium	146K	✓	✓	Tritium Run
1436	1/20	06:24	07:01	Tritium	163K	✓	✓	Tritium Run
1437	1/20	07:01	07:37	Tritium	150K	✓	✓	Tritium Run
1438	1/20	07:38	08:14	Tritium	152K	✓	✓	Tritium Run
1439	1/20	08:18	09:00	^2H	151K	✓	—	Deuterium Run
1440	1/20	09:00	09:34	^2H	133K	✓	✓	Deuterium Run
1441	1/20	09:38	10:33	Empty Cell	113K	✓	—	Empty Cell <u>good</u>

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1442	1/20	10:38	10:56	^3He	23k	✓	✓	He-3 Target - short run, ^{mcc to} tune.
1443	1/20	11:37	12:01	Carbon Hole	25k	-	-	Carbon Hole spot L (still tanning)
1444	1/20	12:02	12:11	Carbon Hole	12k	✓	✓	Spot L check <u>good</u>
1445	1/20	12:16	12:45	^3He	21k	-	-	^3He run, trying again. <u>NO Beam</u> 6
1446	1/20	3:52	16:00	Cosmic Run	541k	✓	-	Cosmic Run - Beam wrong.
1447	1/20	16:11	16:24	Carbon hole	15k	-	-	
1448	1/20	16:44	16:57	Carbon hole	11k	-	-	Beam unstable.
1449	1/20	17:15	17:21	Carbon hole	8.6k	-	-	Spot ++ run.
1450	1/20	17:26	18:01	^3He	95k	Yes	Yes.	^3He -Target Production run
1451	1/20	18:02	18:33	^3He	98k	✓	✓	^3He - Production run
1452	1/20	18:34	19:02	^3He	48k	✓	✓	^3He -Target Production run
1453	1/20	19:05	19:35	^3He	96k	✓	✓	^3He -target Production run
1454	1/20	19:35	20:06	^3He	95k	✓	✓	^3He -target Production run
1455	1/20	20:07	20:37	^3He	97k	✓	✓	^3He -target Production run
1456	1/20	20:41	21:12	^3H	121k	✓	✓	Tritium ^3H Target Production run
1457	1/20	21:13	21:38	^3H	121k	✓	✓	^3H -target, Production run
1458	1/20	21:39	22:08	^3H	134k	✓	✓	^3H -target, Production run
1459	1/20	22:08	22:38	^3H	127k	✓	✓	^3H -target Production run
1460	1/20	22:41	23:09	^2H	116k	✓	✓	Deuterium target Production run
1461	1/20	23:10	23:51	^2H	170k	✓	✓	^2H -target Production run

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1462	1/20	23:55	00:40	^3He	131K	✓	✓	^3He -target production run
1463	1/21	00:41	01:10	^3He	103K	✓	—	= = =
1464	"	01:10	01:23	=	35K	—	—	= = =
1465	"	01:30	02:05	^3H	140K	—	—	^3H -target production run
1466	"	02:08	02:58	=	179K	✓	—	= = =
1467	"	02:59	03:13	Empty	266K	✓	—	empty - cell production
1468	"	03:28	03:50	Empty	59.7K	—	—	= = =
1469	"	03:51	04:20	Empty	89K	—	—	= = =
1470	"	04:26	04:48	25cm dummy	192K	—	—	25 cm dummy - prodn. run
1471	"	05:02	05:22	Carbon	25.3K	✓	—	Spot check.
1472	"	05:24	05:43	Optics	93.6K	—	—	production run.
1473	"	05:45	06:00	Carbon	23.8K	—	—	production run.
1474	"	06:03	06:10	Carbon	1871K	—	—	" =
1475	"	06:15	06:33	dummy	87.4K	—	—	" =
1476	"	06:57	07:20	dummy	157K	—	—	" =
1477	"	07:23	08:07	empty empty cell	67K	✓	NO	8 S2 channels are bad 22.5 uA
1478	"	08:11	8:45	^3He	52K	✓	NO	8 S2 channels empty. 22.5 uA
1479	"	08:45	09:18	^3He	45K	✓	NO	" "
1480	"	09:20	09:20	^3He				FADC check run
1481	"	12:25		Carbon Hole	20K	✓	L	SPOT check.

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1482	1/20	13:08	13:49	^3He	83K	✓	✓	Production. 22.5 μA
1483	1/20	13:49	14:16	"	43K	✓	✓	Production. 22.5 μA . Actual data for 10 min.
1484	"	14:22	15:10	"	100K	✓	✓	Production, 22.5 μA .
1485	"	15:11	15:52	"	97K	✓	✓	"
1486	"	15:52	16:27	"	83K	✓	✓	He-3, 22.5 μA good
1487	1/21/18	16:28	17:02	"	87K	✓	✓	^3He , 22.5 μA good
1488	1/21/18	17:08	17:35	^3H (Tritium)	69K	✓	—	^3H run, 22.5 μA (~ 20 min) good
1489	1/21/18	17:49	18:36	^3H	135K	✓	✓	^3H run, 22.5 μA ~ 30 min + 10 min
1490	1/21	18:37	19:16	^3H	110K	✓	✓	^3H run, 22.5 μA
1491	1/21	19:19	20:00	^3H	115K	✓	✓	^3H run, 22.5 μA
1492	1/21	20:01	20:42	^3H	109K	✓	✓	^3H run 22.5 μA
1493	1/21	20:46	21:21	^2H (Deuterium)	105K	✓	✓	^2H Production Run, 22.5 μA
1494	1/21	21:22	21:45	^2H	44K	✓	✓	^2H Production Run. End Early B. (10 min) Caution down
1495	1/21	21:54	22:40	^2H	108K	✓	✓	^2H Pro. Run
1496	1/21	22:41	22:55	^2H	46K	✓	✓	Production; Dipole Tripped
1497	1/22	00:03	00:08	—	—	—	✓	Junk
1498	1/22	00:46	00:52	Carbon Hole	8390	—	✓	Carbon Hole
1499	1/22	01:10	01:18	^2H	16K	—	✓	^2H production - short run due to MC
1500	1/22	01:29	01:30	Carbon Hole	986	—	✓	Carbon Hole
1501	1/22	01:43		^2H			✓	^2H production

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Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1502	01/22	02:20	02:45	2H	72K	✓	✓	2H Production
1503	01/22	02:51	03:27	Empty target	76K	✓	✓	empty target
1504	01/22	03:27	04:06	Empty target	81K	✓	✓	empty target
1505	01/22	04:11	04:44	^3He	82K	✓	✓	^3He Production
1506	01/22	04:45	05:20	^3He	81K	✓	✓	^3He Production
1507	01/22	05:20	05:30	^3He	19K			^3He Production
1508	01/22	02:24		Home				COSMICS - Junk
1509								
1510								
1511								
1512								
1513	1/22			Home				COSMICS
1514	1/22			Home	—			COSMICS - ROC 31 Prob ^B Restal
1515	1/22	19:38	22:10	Home	109K	✓	✓	COSMIC test @ Kiwada → stentrade
1516	1/23	4:55	6:58	Home	89K			COSMICS
1517	1/23	9:02	9:21	C-hole	23K			Spot ++
1518	1/23	9:22	9:58	C-hole				Spot ++
1519	1/23	9:59	10:22	C-hole				Spot ++
1520	1/23	11:01	11:24	Carbon	43K			Commission
1521		11:49	12:08	Ophes				

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1522	1/23	16:46	16:54	Carbon Hole	5K	—	—	Spotcheck - m/c pulled beam
1523	1/23	17:10	17:14	Carbon Hole	10K	✓	—	Spot - Beam off center
1524	1/23	17:28	17:30	Carbon	572K			Rastan Run
1525	1/23	17:58	18:32	Hydrogen	94K	✓	✓	Production (^2H)
1526	1/23	18:33	19:07	^2H	90K	✓	✓	Production
1527	1/23	19:11	19:33	Empty Cell	22K	✓	✓	Production Down in Tune
1528	1/23	19:42	20:23	Empty Cell	71K	✓	✓	Production
1529	1/23	20:24	21:00	Empty cell	74K	✓	✓	Production
1530	1/23	21:03	21:35	^3He	7412	✓	✓	Production ^3He
1531	1/23	21:36	22:10	^3He	85K	✓	✓	Production
1532	1/23	21:11	22:50	^3He	94K	✓	✓	Production
1533	1/23	22:52	22:39	^3He	81K 81K	✓	✓	Production
1534	1/23	—	—	^3H (Tritium)	—	—	—	Production (^3H) m/c pulled beam at start
1535	1/24	00:00	00:09	^3H	26K	✓	✓	Production ^3H
1536	1/24	00:11	00:17	^3H	32K	—	—	Production ^3H Junk
1537	1/24	00:38	00:47	^3H	14K	✓	✓	Production ^3H
1538	1/24	01:10	01:21	^3H	21K			Production ^3H
1539	1/24	05:00	05:12	Carbon hole	14K	—	—	Carbon hole spot check
1540	1/24	05:22	06:04	^3H	80K	✓	✓	Production ^3H $I=18\mu\text{A}$, beam was
1541	1/24	06:05	06:44	^3H	74K	✓	✓	Production ^3H , $I=8\mu\text{A}$, beam tripped too many times.

tripping. Current was 5 μA 5 μA 5 μA

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1542	1/24	06:45	07:18	3H	46k	✓	✓	Production 3H, I=18µA, ^{mostly} low current ~5µA,
1543	1/24	07:32	08:36	3H	97K	✓	✓	Production 3H, I=18µA
1544	1/24	08:37	08:~	3H				Production, 3H Junk
1545	1/24	17:30	18:18	3H	97K 97K	✓	✓	SpA at start (Beam unstable)
1546	1/24	18:21	19:03	3H	104K	✓	—	~
1547	1/24	19:06	19:49	3H	116K	✓	✓	✓
1548	1/24	19:52	20:26	3H	89K	✓	—	Deuterium Production
1549	1/24	20:26	20:59	3H	95K	✓	—	" "
1550	1/24	21:06	20:33	Dummy	90K	✓	✓	10µA Beam 'o
1551	1/24/25	22:33	16:35	Home	777K			Cosmic Run overnight Per RC
1552	1/25/18	17:07	17:27	Carbon Hole	23K	✓	✓	Spot L check <u>solid</u> 'o
1553	1/25	17:29	17:59	Dummy	1.75K	✓	—	Production 'o
1554	1/25	20:19	20:23	Home				Production 'o BCM cal
1555	1/25	20:27	21:28	Home	759K			BCM cal.
1556	1/25	21:56	22:06	Carbon Hole	14K	✓	✓	Spot L check with BCM cal
1557	1/25	22:10	22:42	³ He	76K	✓	✓	Production 'o
1558	1/25	22:42	23:12	³ He	73K	✓	—	"
1559	1/25	23:12	23:43	³ He	75K	✓	—	"
1560	1/25	23:44	00:15	³ He	77K	✓	✓	"
1561	1/26	00:16	00:49	³ He	77K	✓	✓	³ He Production. I=22.5µA

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Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1562	1/26	01:06	01:38	3H	99k	✓	✓	3H production, I=22.5MA
1563	1/26	01:39	02:11	3H	97k	✓	✓	3H production, I=22.5MA
1564	1/26	02:12	02:47	3H	98k	✓	✓	" "
1565	1/26	02:48	03:21	3H	100k	✓	✓	" "
1566	1/26	03:22	03:53	3H	100k	✓	✓	" "
1567	1/26	04:03	04:36	2H	78k	✓	✓	2H production
1568	1/26	04:39	05:11	2H	92k	✓	✓	" "
1569	1/26	05:18	05:36	3He	44k	✓	✓	3He production
1570	1/26	07:11	07:16	3He	6k	-	-	" "
1571	1/26	07:37	7:36	3He	122K	✓	-	" "
1572	1/26	08:37	9:27	3He	94K	-	-	XXXXXXXXXX " "
1573	1/26	10:14		None				Junk, test
1574	1/26			None				Junk,
1575	1/26			C Hole				Spot
1576	1/26			3He				XXXXXXXXXX Production
1577	1/26			25cm Dummy				Dummy
1578	1/26	12:24	13:24	optics	234K	-	-	optics
1579	1/26	13:33	14:12	3He	42K	-	-	3He Production
1580	1/26	14:34	15:33	3He	117	✓	✓	3He production
1581	1/26	15:34	16:31	3He	112K	✓	✓	3He production

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Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1582	1/26	16:33	17:30	^3He	104K	✓	✓	^3He production
1583	1/26	17:31	18:25	^3He	125K	✓	✓	^3He production
1584	1/26	18:34	19:05	^3H	96K	✓	✓	Tritium production
1585	1/26	19:06	19:40	^3H	100K	✓	✓	^3H production
1586	1/26	19:41	20:14	^3H	105K	✓	✓	^3H production
1587	1/26	20:17	20:57	^2H	114K	✓	✓	deuterium production
1588	1/26	20:58	21:40	^2H	113K	✓	✓	deuterium production
1589	1/26	21:44	22:18	^3H	104K	✓	✓	^3H production
1590	1/26	22:19	22:58	^3H	116K	✓	✓	^3H prod.
1591	1/26	23:00	23:37	^3H	110K	✓	✓	^3H prod.
1592	1/26	23:38	00:16	^3H	100K	✓	✓	^3H prod.
1593	1/27	00:19	00:54	^3H	99.8K	✓	✓	^3H prod. V. 5. ^3H
1594	1/27	00:58	01:42	D/ ^2H	113K	✓	✓	deuterium prod.
1595	1/27	01:43	02:22	D/ ^2H	110K	✓	✓	deuterium prod. V. 2. 0
1596	1/27	02:22	3:05	D	111.7K	✓	✓	deuterium prod. V. 3. 0
1597	1/27	3:06	4:03	D	161.5K	✓	✓	" " " " . 4.
1598	1/27	4:10	4:40	Dummy	203.6K	✓	✓	Dummy Kill
1599	1/27	4:53	5:31	^3He	90 K	✓	✓	^3He Prod.
1600	1/27	5:31	5:54	^3He	36 K	✓	✓	^3He Prod.
1601	1/27	6:00	7:58	Home	84	✓	✓	Cosmics T1=T2=T3=1 T8=0!!

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1602	1/27	8:01		Hole				spett
1603								
1604	1/27	8:44	9:32	3He	102K	✓	✓	3He Production / kin 11
1605	1/27	8:34	10:20	3He	107K	✓	✓	3He Production / kin 11
1606	1/27	10:21	11:07	3He	107K	✓	✓	3He Production / kin 11
1607	1/27	11:09	11:50	3H	108K	✓	✓	Deterium Tritium Production
1608	1/27	11:52	12:28	3H	103K	✓	✓	Tritium Production
1609	1/27	12:29	13:07	3H	107K	✓	✓	Tritium Production
1610	1/27	13:09	13:53	3H	110K	✓	✓	Tritium Production
1611	1/27	13:54	14:30	3H	107K	✓	✓	Tritium Production
1612	1/27	14:30	15:13	3H	122K	✓	✓	Tritium Production
1613	1/27	15:18	15:57	3He	93K	✓	✓	3He Production / kin 11
1614	1/27	16:00	16:32	3He	59K	✓	✓	3He Production / kin 11
1615	1/27	16:30	17:02	3He	56K	✓	✓	" " "
1616	1/27	17:03	17:32	3He	53K	✓	✓	" " "
1617	1/27	17:32	18:00	3He	51K	✓	✓	" " "
1618	1/27	18:00	18:30	3He	54K	✓	✓	" " "
1619	1/27	18:30	7:15	3He	102K	✓	✓	" " "
1620	1/27	7:20		C				no beam
1621	1/27			C	1310K	✓	✓	has to Calib

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1622	1/27	8:15	20:00	C-hole	194K	✓		OPT SPOT beam
1623	1/27	8:15 20:00	20:19	C-hole		✓	✓	OPTICS SPOT 47
1624	1/27	8:25	21:00	OPTICS	104K	✓	✓	OPTICS
1625	1/27	21:05	21:40	C	53K	✓	✓	C-target
1626	1/27	21:42	21:46	C	1578K	✓	✓	C-target PSS 10
1627	1/27	21:55	22:30	Empty cell	41K	✓	✓	Empty cell
1628	1/27	22:35	23:10	³ He	590K	✓	✓	³ He target
1629	1/27	23:10	23:45	³ He	67K	✓	✓	³ He target
1630	1/27	23:45	0:33	³ He	51K	✓	✓	³ He TARGET
1631	1/28	1:03	2:10	³ He	120K	✓	✓	PROD.
1632	1/28	2:10	3:20	³ He	120K	✓	✓	PROD.
1633	1/28	3:20	4:29	³ He	125K	✓	✓	PROD.
1634	1/28	4:34	5:35	³ H	137K	✓	✓	PROD.
1635	1/28	5:37	6:53	³ H	134K	✓	✓	PROD.
1636	1/28	6:53	7:58	³ H	124K 124K	✓	✓	PROD.
1637	1/28	8:01	9:02	³ H	124K	✓	✓	Prod.
1638	1/28	9:04	9:07	³ H	7422			Production run
1639	1/28	9:14	10:17	D	132K	✓	✓	Prod.
1640	1/28	10:18	11:16	D	127K	✓	✓	Production run
1641	1/28	11:17	12:	D	114K	✓	✓	Production run

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Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1642	1/28	12:31	13:28	Dummy	220K	✓	✓	Production run Dummy run
1643	1/28	13:30	14:25	Dummy	220K	✓	✓	Dummy run
1644	1/28	14:29	15:32	³ He	94K	✓	✓	Production run
1645	1/28	15:34	16:34	³ He	99K	✓	✓	Production run
1646	1/28	16:35	17:45	³ He	93K	✓	✓	Production run no beam for half
1647	1/28	18:00		³ He		No beam		Production run (No beam)
1648	1/28	18:10		³ He		No beam		no beam
1649	1/28	18:50		C-hole				Spot +-
1650	1/28	20:20	20:30	C-hole				Spot +-
1651	1/28	20:35	22:00	³ He	147K	✓	✓	Production
1652	1/28	22:00	23:15	³ H	146K	✓	✓	Production
1653	1/28	23:15 00:20	00:20	³ H	84K	✓		Production
1654	1/29	00:32	01:29	³ H	11760	✓	✓	First 10 min very tripy / Production
1655	1/29	01:31	2:29	² H	132K	✓	✓	Production
1656	1/29	02:35	03:36	Deut.	113K	✓	✓	Production
1657	1/29	03:37	04:08	Deut.	416K			Production (Ended Early due to No Beam)
1658	1/29	04:59	05:36	Deut.	78K	✓	✓	Production
1659	1/29	05:41	06:41	³ He	109K	✓	✓	Production
1660	1/29	06:42	07:41	³ He	108K	✓	✓	Production
1661	1/29	07:42	8:42	³ He	100K	✓	✓	³ He prod.

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1662	1/29	8:42	9:01	Tritium Run List ³ He		✓	✓	prod.
1663	1/29	18:43	19:58	Carbon tube	15166	—		spot + t
1664	1/29	20:04	21:05	He3	92.5K		✓	production run
1665	1/29	21:12	22:12	H3	105K	✓	✓	production run
1666	1/29	22:14	22:16	H3	149K	✓	✓	production run
1667	1/29	23:17	00:22	H3	1410K	✓	✓	production run
1668	1/30	00:24	00:33	H3	143	✓	✓	Production
1669	1/30	01:23	01:42	H3	25K	x	x	Production (run stop)
1670	1/30	01:47	01:53	H3	7.5K	x	x	Production (run stop)
1671	1/30	1:59	2:02	D	X	x	x	Production (stop)
1672	1/30	2:03	3:06	D	133K	✓	✓	production
1673	1/30	3:08	4:08	D	139K	✓	✓	Production
1674	1/30	4:08	5:01	D	137K	✓	✓	Production
1675	1/30	5:18	6:05	Empty C	69K	✓	✓	empty cell Prod.
1676	1/30	6:16	7:09	Dummy	184K	✓	✓	Dummy run
1677	1/30	7:13	8:29	Dummy	329K	✓	✓	Dummy run
1678	1/30	12:17	10:30	C-Like	17K	✓	✓	Spot + t
1679	1/30	12:34	12:39	Carbon foil	1.1M	—	—	Washer data
1680	1/30	12:50	13:52	Dummy	282K	✓	✓	Dummy run production
1681	1/30	14:02	15:04	³ He	115K	✓	✓	³ He run
1682	1/30	15:11	16:11	³ He	112K	✓	✓	³ He run

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1683	1/30	16:09	17:08	^3He	115K	✓	✓	^3He prod.
1684	1/30	17:07	18:06	^3He	117K	✓	✓	^3He prod.
1685	1/30	18:13	19:07	^3H	120K	✓	✓	^3H prod.
1686	1/30	19:08	20:04	^3H	124K	✓	✓	^3H prod.
1687	1/30	20:04	21:08	^3H	105K	✓	✓	^3H prod.
1688	1/30	21:08	22:38	^3H	140K	✓	✓	^3H prod.
1689	1/30	23:13	0:14	D	81K	✓	✓	deuterium prod (low quality beam)
1690	1/30	0:16	0:41	D	50K	✓	✓	deuterium prod (beam stopped)
1691	1/30	2:55	4:17	D	124	✓	✓	deuterium
1692	1/30	04:21	05:24	^3He	116K	✓	✓	^3He production
1693	1/31	05:25	06:25	^3He	119K	✓	✓	^3He production
1694	1/31	06:26	07:28	^3He	116K	✓	✓	^3He production
1695	1/31	07:29	08:30	^3He	114K	✓	✓	^3He production
1696	1/31	08:35	09:36	^3H		✓	✓	Tritium production. - No beam for last 20min
1697	1/31	09:37	?	^3H	-			No beam for
1698	1/31	10:31	11:41	^3H	159k	✓	✓	^3H production
1699	1/31	11:42	12:49	^2H	138k	✓	✓	^2H production
1700	1/31	12:44	13:35	^3H	73k	✓	✓	^3H production - Stopped due to beam time
1701	1/31	02:18	02:49	Carbon	-	✓	✓	Spot Check
1702	1/31	02:52	03:35	^3H	80k	✓	✓	^3H production - Stopped due to beam down

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1703	1/31	16:51	17:08	C-hole		✓		Spot ++
1704	1/31	17:22	18:30	² H	154K	✓	✓	Production
1705	1/31	18:30	19:36	² H	132K	✓	✓	Production
1706	1/31	19:36	20:38	² H	114K	✓	✓	Production
1707	1/31	20:45	21:45	Dummy	203K	✓	✓	Production (Dummy)
1708	1/31	21:45	23:15	Dummy	321	✓	✓	Production Dummy
1709	1/31	23:20	00:23	³ He	111K	✓	✓	Production etc
1710	02/01	00:24	1:25	³ He	111K	✓	✓	Production
1711	02/01	01:27	2:28	³ He	101K	✓	✓	Production
1712	02/01	02:30	3:30	³ He	102K	✓	✓	Production
1713	02/01	3:40	04:40	³ H	125K	✓	✓	Production
1714	02/01	04:42	05:42	³ H	110K	✓ (140K)	✓	Production
1715	02/01	05:45	06:45	³ H	137K	✓	✓	Production
1716	02/01	06:47	07:48	³ H	127	✓	✓	Production
1717	02/01	07:56	08:58	² H	117K	✓	✓	Production
1718	02/01	08:59	09:58	² H	115K	✓	✓	Production
1719	02/01	10:03	10:05	³ He	2.51K	✓	✓	Production
1720	02/01	10:07	10:50	³ He	30K			Cosmics
1721	02/01	10:51	11:53	³ He	101K	✓	✓	Production
1722	02/01	12:13	14:26	³ He	156K	✓	✓	Production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1723	02/01	14:31	14:39	^3He	13K	✓	✓	Production
1724	02/01	17:27	17:27	^3H				Junk
1725	02/01	17:35		^3He				Cosmics
1726	02/01	18:53	19:04	Carbon Hole	7K			Spot ++ (Junk)
1727	02/01	19:10	19:25	C-Hole				Spot ++ (Junk)
1728	02/01	19:25	19:45	C-Hole				Spot ++
1729	02/01	19:45	19:55	^3He C-hole	139K	✓	✓	Production Spot++
1730	02/01	20:02	21:02	^3He	114K	✓	✓	Production
1731	02/01	21:02	21:25	^3He	140K	✓	✓	Production
1732	02/01	21:25	22:02	^3He	63K	✓	✓	Production
1733	02/01	22:08	23:17	^3H	144K	✓	✓	Production
1734	02/01	23:17	00:18	^3H	137K	✓	✓	Production
1735	02/01	00:20	01:18	^3H	136K	✓	✓	Production -
1736	02/02	02:31	03:28	^3H	116K	✓	✓	Production
1737	02/02	03:46	04:45	C-Hole	46K	✓	✓	SPOT ++
1738	02/02	04:43	05:45	^3H ^2H	103K	✓	✓	Production
1739	02/02	06:02	07:03	^2H	134K	✓	✓	Production
1740	02/02	07:05	07:37	^2H	72K	✓	✓	Production. (30 min)
1741	02/02	07:47	8:47	Dummy	169K	✓	✓	Production
1742	02/02	8:53	9:55	DUMMY	277K	✓	✓	Prod.

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1743	02/02	10:04	11:05	^3He	109K	✓	✓	Production.
1744	02/02	11:07	12:11	^3He	118K	✓	✓	Production.
1745	02/02	12:12	13:18	^3He	118K	✓	✓	Prod.
1746	02/02	13:20	14:20	^3He	98K	✓	✓	Prod.
1747	02/02	14:21	15:40	^3He	121K	✓	✓	Prod.
1748	02/02	15:45	16:45	^3H	122K	✓	✓	Prod.
1749	2/2	16:45	17:49	^3H	109K	✓	✓	production
1750	2/2	17:49	18:50	^3H	89K	✓	✓	production, beam poor
1751	2/2	18:50	19:57	^3H	136K	✓	✓	production
1752	2/2	19:57	21:00	^3H	125K	✓	✓	prod.
1753	2/2	21:04	22:05	^2H	120K	✓	✓	deuterium prod.
1754	2/2	22:10	23:13	^3He	118K	✓	✓	Helium 3 prod.
1755	2/2	23:14	00:22	^3He	123K	✓	✓	^3He prod.
1756	2/3	00:23	01:31	^3He	127K	✓	✓	^3He prod.
1757	2/3	01:32 02:33	02:33	^3He	120K	✓	✓	^3He prod.
1758	2/3	02:35	03:47	^3He	122K	✓	✓	^3He prod.
1759	2/3	03:53	4:55	^3H		✓	✓	^3H prod.
1760	2/3	04:55	6:07	^3H	150K	✓	✓	^3H prod.
1761	2/3	06:08	6:56	^3H	100K	✓	✓	^3H prod. short
1762	2/3	07:24	8:05	^3H		✓	✓	^3H prod.

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1783	2/4/18	2:53	4:00	3H	153k	✓	✓	Production
1784	2/4/18	4:04	5:06	D2	147k	✓	✓	Production
1785	2/4/18	5:07	5:31	D2	28k	✓	✓	Production
1786								PS8=1 Junk
1787	2/4/18	5:41	5:43	Dummy	500k			PS8=10 Raster data
1788	2/4/18	5:44	6:45	Dummy	515k	✓	✓	Production
1789	2/4/18	6:46	7:45	Dummy	309k	✓	✓	Production
1790	2/4/18	7:50	7:56	He3	5k	✓	✓	Production
1791	2/4/18	8:00	9:01	He3	111k	✓	✓	Production
1792	2/4/18	9:02	10:09	He3	119k	✓	✓	Production
1793	2/4/18	10:09	11:09	He3	112k	✓	✓	Production
1794	2/4/18	11:10	12:11	He3	100k	✓	✓	Production
1795	2/4/18	12:13	12:38	He3	36k	✓	✓	Production
1796	2/4/18	18:03	18:10	Corbin Hale	—	—	—	Production
1796	2/4/18	18:03	18:10	Corbin Hale	—	—	—	Spot +/ Junk No beam!
1797	2/4/18	18:14	19:33	Corbin Hale	24k	✓	✓	Spot +
1798	2/4/18	18:44	19:45	3He	93k	✓	✓	Production
1800 1799	2/4/18	19:52	20:03	3He	21k	✓	✓	Production Short run.
1801 1800	2/4/18	20:08	21:15	3H	137k	✓	✓	Production
1802 1801	2/4/18	20:16	21:48	3H	42k	✓	✓	Production (Beam away for 20min)
1802	2/4/18	22:18	23:29	3H / note	51k			Corvues

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1823								
1824								
1825								
1826								
1827								
1828								
1829								
1830								
1831								
1832								
1833								
1834	2/6/18	01:02	01:21	Carbon/Hole	21k	✓	✓	Spot pt
1835	2/6/18	01:25	02:01	optics	106k	✓	✓	optics
1836	2/6/18	02:12	02:26	Carbon	10k	—	—	Production Junk
1837	2/6/18	02:40	02:51	Carbon	7k	—	—	Production Junk
1838	2/6/18	03:06	03:37	"	42k			Production
1839	2/6/18	03:39	03:66	"	1.5M	—	—	" T8=10
1840	2/6/18	03:51	04:56	Empty	95k	✓	✓	"
1841	2/6/18	05:07	05:45	3He	49k	✓	✓	" , beam wa stripping
1842	2/6/18	06:08	07:14	3He	111k	✓	✓	production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1843	2/6/18	07:15	07:40	^3He	30k	✓	✓	Production, last turnkeys no beam
1844	2/6/18	07:44	08:50	^3He	100k	✓	✓	
1845	2/6/18	08:50	09:52	^3He	108k	✓	✓	
1846	2/6/18	09:53	10:22	^3He	24k	✓	✓	Production, Beam away for 20 min
1847	2/6/18	10:34	10:39	^3He	/	/	/	JUNK (used to wire beam)
1848	2/6/18	10:46	11:30	^{12}C (hole)	45k	/	/	hole seen by all shift crew members
1849	2/6/18	12:04	12:26	^3He	21k	/	/	Production . JUNK (beam unusable)
1850	2/6/18	12:56	13:53	^3He	62k	✓	✓	very trippy beam
1851	2/6/18	14:40	15:37	^3He	87k	✓	✓	
1852	2/6/18	15:53	16:16	Home	24k	✓	✓	
1853	2/6/18	16:25	16:37	Empty	20K			EGR crashed
1854	2/6/18	19:53	20:10	c-hole	20K	✓	✓	Beam centered
1855	2/6/18	20:4	20:46	Empty Cell	18K	✓	✓	
1856	2/6/18	20:49	20:53	Carbon	957K			PS8 = 10
1857	2/6/18	21:00	22:04	^3He	113 K	✓	✓	$dT = 1\%$
1858	2/6/18	22:08	23:	^3H	140K	✓	✓	$dT = 1\%$
1859	2/6/18	23:12	00:17	^3H	141K	✓	✓	$dT = 1\%$
1860	2/7/18	00:18	01:26	^3H	140k	✓	✓	Production.
1861	2/7/18	01:27	02:31	^3H	140k	✓	✓	"
1862	2/7/18	02:35	03:40	^2H	100k	✓	✓	"

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1863	2/7/18	03:41	04:47	^2H	136k	✓	✓	Production
1864	2/7/18	04:54	05:32	Dummy	129k	✓	✓	" , last 5 minutes no beam
1865	2/7/18	05:38	05:56	"	50k	✓	✓	Production, beam for 5 minutes
1866	2/7/18	06:06	06:57	"	700k	✓	✓	Production
1867	2/7/18	06:59	08:00	"	280k	✓	✓	Production
1868	2/7/18	08:05	09:08	^3He	106k	✓	✓	Production
1869	2/7/18	09:08	~09:55	^3He	?	✓	✓	Production / see Halcy / RUN ok!
1870	2/7/18	10:05	11:04	^3He	87k	✓	✓	Production, cut beam since beam off
1871	2/7/18	11:27	12:32	^3He	92k	✓	✓	Production, very trippy beam
1872	2/7/18	12:34	12:53	^3He	18k	no	/	Beam off
1873	2/7/18	14:52	15:00	^3He	16k	no	/	bad BPMs, considered as junk
1874	2/7/18	15:00	16:20	^3He	102k	✓	✓	Production
1875	2/7/18	16:22	17:21	^3He	66k	✓	✓	Production
1876	2/7/18	17:27	18:38	^3He	106k	✓	✓	production (10μA + 22.5μA)
1877	2/7/18	18:43	19:15	^3H	34k	✓	✓	production (10μA + 22.5μA)
1878	2/7/18	19:41	19:50	^3H	1k	-	-	Very little beam
1879	2/7/18	20:08	21:35	^3H	144k	✓	✓	Production
1880	2/7/18	21:36	23:40	^3H	149k	✓	✓	"
1881	2/7/18	23:00	00:06	^3H	140k	✓	✓	"
1882	2/8/18	00:07	01:17	^3H	138k	✓	✓	"

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1903								
1904	02/11/18	08:10	13:56	HOME	248k			Cosmics
1905	02/12/18	1:04						Cosmics
1906	02/12/18	1:04	3:58	MOAR	143k			Cosmics
1907	03/12/18	5:21	5:34	Carbon Hole	15k			
1908	02/12/18	5:35	5:48	Carbon Hole	15k			
1909	02/12/18	6:58	7:34	Carbon Hole	58k			
1910	02/12/18	12:29	12:33	Carbon hole				
1911	02/12/18	13:27	13:51	Carbon hole	28k	✓	✓	
1912	02/12/18	13:56	14:01	Carbon	1285k			P4,2,3=0, P5=10
1913	02/12/18	14:52	15:59	Empty cell				Production
1914	02/12/18	16:01		Empty cell				Production
1915	02/12/18	17:23	17:25	Empty cell				Production
1916	02/12/18	17:26	16:43	Empty cell				Production
1917	02/12/18	16:47	20:04	3He	125K	✓		Production
1918	02/12/18	20:09	21:26	H3	90K	✓		production / just 20 mins beam
1919	02/12/18	21:29	22:29	H3	113K	✓		production
1920	02/12/18	22:30	23:30	H3	117K	✓		production
1921	02/12/18	23:30	00:30	H3	119K	✓	✓	production
1922	2/13/18	00:35	1:40	H3	106k	✓		production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1923								CODA crash
1924	2/13/18	1:49	2:50	D2	124k	✓	✓	Production
1925	2/13/18	2:52	4:01	D2	132k	✓	✓	Production
1926	2/13/18	4:07	4:54	He3	71.4k	✓	✓	Production
1927	2/13/18	6:34	7:47	He3	129k	✓	✓	Production
1928	2/13/18	7:48	8:11	He3	38K	✓	✓	Production ; beam down 23 min
1929	2/13	9:37	10:20	He3	71K	✓	✓	Production 3 min
1930	2/13	10:21	11:22	³ He	90K	✓	✓	Production
1931	2/13	11:23	12:24	³ He	100K	✓	✓	Production
1932	2/13	12:29	13:30	³ H	130K	✓	✓	Production
1933	2/13	13:32	14:32	³ H	126K	✓	✓	Production
1934	2/13	14:33	15:38	³ H	108K	✓	✓	Production ; ~10 mins of 10 μA beam
1935	2/13	15:40	16:41	³ H	113K	✓	✓	Production
1936	2/13	16:44	17:44	² H	116K	✓	✓	deuterium prod.
1937	2/13	17:44	18:44	² H	112K	✓	✓	production
1938	2/13	18:50	19:59	³ He	93K	✓	✓	3He ³ He prod, beam very choppy
1939	2/13	20:00	21:06	³ He	90K	✓	✓	³ He prod, poor beam qual.
1940	2/13	21:06	21:53	³ He	34K	X	X	³ He prod, poor beam quality
1941	2/13	22:22	23:35	³ He	95K	✓	✓	³ He prod, 15 μA (requested)
1942	2/13	23:35	00:35	³ He	75K	✓	✓	lots of trips. Sum 3h. Between 18 & 22 μA

choppy beam

Junk

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1943	02/14	00:37	00:46	^3He	87K	✓	✓	Beam is still very frippy
1944	02/14	01:47	02:46	^3He	149K	✓	✓	BPMs moved → possible scraping
1945	02/14	02:53	04:11	^3H	106K	✓	✓	~20 min beam trip
1946	02/14	04:12	05:12	^3H	111K	✓	✓	More stable beam
1947	02/14	05:12	06:12	^3H	112K	✓	✓	Stable good beam
1948	02/14	06:14	7:26	^3H	131K	✓	✓	good beam - beginning at 22 uA
1949	02/14	7:31	8:43	D	131K	✓	✓	
1950	2/14	10:01	11:00	D	79K	✓	✓	Production; choppy beam to 20 uA
1951	2/14	11:30	12:15	D	78K	✓	✓	Production 22 uA
1952	2/14	12:32	13:31	dummy	255K	✓	✓	Production 22 uA
1953	2/14	13:33	14:31	dummy	247K	✓	✓	Production 22 uA
1954	2/14	14:35	14:53	^3He	18K	X	X	Production, Junk
1955	2/14	15:13	16:13	^3He	96K	✓	✓	^3He production
1956	2/14	16:13	16:22	^3He	6K	X	X	production, had to stop due to 30 min beam downtime
1957	2/14	16:53	17:55	^3He	68K	X	X	production, very choppy beam
1958	2/14	21:26	22:37	^3He	117K	✓	✓	^3He production, beam more stable
1959	2/14	22:37	22:54	^3He	111K	X	X	^3He production, JUNK
1960	2/14	22:55	00:07	^3He	990K	✓	✓	production, choppy beam
1961	2/15	00:10	1:22	^3He	90K	✓	✓	Production,
1962	2/15	1:23	2:35	^3He	101K	✓	✓	Production,

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1963	2/15	2:56	4:19	3H	113K	✓	✓	3H Production.
1964	2/15	4:20	5:23	3H	115K	✓	✓	3H production
1965	2/15	5:24	5:23	3H	109K	✓	✓	3H production.
1966	2/15	6:23	7:40	3H	120K	✓	✓	3H production.
1967	2/15	7:41	8:18	3H	57K	✓	✓	35m 3H Production
1968	2/15	8:29	9:02	dummy	127K	✓	✓	33m Production; raster down
1969	2/16	00:36	00:41	Carbon hole				
1970	2/16	00:42	01:15	Carbon hole	2K	✓	✓	
1971	2/16	01:27	01:29	"				
1972	2/16	01:31	3:18	C-hole	86K	✓	✓	5mA Spot + +
1973	2/16	03:26	3:30	Carbon	600K			SUA, ps 1-7=0, ps 8=10
1974	2/16	3:41	4:46	3H	60K	✓	✓	ps 4, 5, 6, 7, 8 production, 3H, SUA
1975	2/16	4:48	5:51	3H	68K	✓	✓	production, 10mA
1976	2/16	5:52	6:55	3H	61K	✓	✓	production @ TUA
1977	2/16	6:58	7:59	D2	64K	✓	✓	production @ TUA, D target
1978	2/16	8:00	8:32	D2	24K	—	—	production @ TUA, D2
1979	2/16	8:38	9:04	D2	29K	—	—	30 min run: very diff beam currents
1980	2/16	15:05	15:34	C-Hole				Lower left current
1981	2/16	15:51	17:07	D2	78K	✓	✓	production, D target, Choppier beam
1982	2/16	17:29	18:29	D2	111K	✓	✓	production, D target

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
1983	2/16	18:34	19:45	^3He	108k	✓	✓	Production
1984	2/16	19:45	21:04	^3He	110k	✓	✓	Production
1985	2/16	21:06	22:16	^3He	90k	✓	✓	Production last 20 mins nothing
1986	2/16	22:26	23:52	^3He	121k	✓	✓	Production
1987	2/16	23:54	2:00	^3He	167k	✓	✓	Production
1988	2/17	2:08	2:12	^3H	136k	✓	✓	Production (Target to ^3H)
1989	2/17	3:13	4:20	^3H	125k	✓	✓	Production
1990	2/17	4:23	5:27	^3H	126k	✓	✓	Production
1991	2/17	4:28	5:29	^3H	140k	✓	✓	Production. (20 min continuous beam trip)
1992	2/17	6:55	7:55	D_2	116k	✓	✓	Production
1993	2/17	7:57	8:35	D_2	44k	x	x	Production / Big trip Ended Early
1994	2/17	9:48	10:54	D_2	130k	✓	✓	Production
1995	2/17	11:01	12:06	^3He	108k	✓	✓	Production
1996	2/17	12:08	13:16	^3He	97k	✓	✓	Production
1997	2/17	13:21	14:27	^3He	112k	✓	✓	Production
1998	2/17	14:29	15:25	^3He	109k	✓	✓	Production
1999	2/17	15:36	16:44	^3He	100k	✓	✓	Production
2000	2/17	16:46	17:54	^3He	94k	✓	✓	Production
2001	2/17	17:58	19:05	^3H	112k	✓	✓	Production, tritium
2002	2/17	19:07	20:21	^3H	110k			Production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2003	2/17	20:23	21:23	3H	88k	✓	✓	Production ^{no beam} test 15 min.
2004	2/17	21:36	22:51	3H	130k	✓	✓	Production
2005	2/17	22:55	23:57	D ₂	101k	✓	✓	Production
2006	2/17	23:58	01:11	D ₂	124k	✓	✓	Production
2007	2/18	01:17	02:46	Optics	165k	✓	✓	Optics (lds of Cris)
2008	2/18	02:50	03:22	Carbon	41k	✓	✓	Carbon
2009	2/18	03:24	03:29	Carbon	1.2M			Carbon (ps8=10)
2010	2/18	03:34	04:49	Empty	105k	✓	✓	Empty Cell
2011	2/18	05:28	06:31	Carbon ^{3He}	104K	✓	✓	Production Carbon 3He
2012	2/18	06:32	07:59	3He	107K	✓	✓	Production 3He
2013	2/18	08:00	09:09	3He	103k	✓	✓	Production
2014	2/18	09:10	10:13	3He	105k	✓	✓	Production
2015	2/18	10:14	11:21	3He	102k	✓	✓	Production
2016	2/18	11:30	12:35	3H	119k	✓	✓	Production
2017	2/18	12:36	13:45	3H	128k	✓	✓	Production
2018	2/18	13:46	14:56	3H	130k	✓	✓	Production
2019	2/18	14:57	16:25	3H	140K	✓	✓	Production
2020	2/18	16:25	17:26	3H	128K	✓	✓	production
2021	2/18	17:31	18:31	D ₂	107K	✓	✓	D ₂ production
2022	2/18	18:32	19:32	D ₂	93K	✓	✓	D ₂ prod.

Tritium Run List

* See halog for Proton
rejection ADC plots. Notified
RE, Tong, etc but abnormalities
are present

JUNK

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2023	2/18	19:41	20:44	Dummy	116K	X	X	25cm Dummy, 22.5uA
2024	2/18	20:45	22:03	Dummy	165K	✓	✓	Dummy prod, poor/choppy beam,
2025	2/18	22:16	22:46	Dummy	91K	✓	✓	Dummy prod, poor/choppy beam
2026	2/19	00:48		None				Cosmics Run.
2027	2/19			None				Cosmics Run (check)
2028	2/19			None				
2029	2/19			None				
2030	2/19			None	400K	✓	✓	Cosmics Run
2031	2/19	03:16	04:16	Dummy	231K	✓	✓	25cm Dummy, 22.5uA; Production
2032	2/19	04:17	05:15	Dummy	219K	✓	✓	" ; Production.
2033	2/19	05:21	6:31	3He	87K	✓	✓	3He. Production
2034	2/19	6:39	7:52	3He	120K	✓	✓	3He. Production
2035	2/19	7:53	09:00	3He	109K	✓	✓	3He Production
2036								
2037								
2038								
2039								
2040	2/19	3:07	3:24	None				Cosmics
2041	2/19	3:23	16:59	None	61.5K	✓	YES	Cosmics
2042	2/19	17:07	17:50	None	30,21K		YES	Cosmics

poor beam
quality
beam,

(check)

Production
; Production.

Feb 19 / 2018

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2043	2/19	17:53	18:18	c-hole			YES	COSMICS
2044	2/19	18:20	20:11	c-hole	110.4K	✓	YES	#3534701 (c-hole)
2045	2/19	20:15	21:15	^3He	100.0K	✓	YES	
2046	2/19	21:17	22:19	^3He	106.6	✓	YES	
2047	2/19	22:25		^3H	8PK	✓	YES	abnormal end of run (frozen APAB)
2048	2/19	23:31	00:38	^3H	138K	✓	Yes	Kin 15 ^3H
2049	2/20	00:40	01:48	^3H	128K	✓	Yes	Kin 15 ^3H
2050	2/20	01:49	03:19	^3H	149K	✓	Yes	
2051	2/20	03:20	04:24	^3H	102K	✓	Yes	
2052	2/20	04:26	05:33	D_2	96K	✓	Yes	Move to $\text{D}_2 = ^2\text{H}_2$
2053	2/20	05:41	06:46	D_2	101K	✓	Yes	
2054	2/20	06:54	07:57	^3He	111K	✓	Yes	Kin 15 ^3He Round 10 -10
2055	2/20	07:58	8:37	^3He	61K	✓	Yes	Productions; beam off from MCL
2056								
2057	2/20	17:54	18:03	c-hole	42.4K	✓	YES e f. 50eV	SPECTROMETER @ 1.5 eV/e for rate
2058	2/20	18:21	19:29	^3He	94K	✓	YES	
2059	2/20	19:30	21:01	^3He	100K	✓	YES	
2060	2/20	21:02	22:11	^3He	98.7K	✓	YES	
2061	2/20	22:12	23:22	^3He	98.1K	✓	✓	
2062	2/20	23:30	1:00	^3H	249K	✓	✓	

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2063	2/21	1:09	2:0	H3	123k	✓	✓	Production
2064	2/21	2:14	3:22	H3	121k	✓	✓	Production
2065	2/21	3:22	4:09	H3	82k	✓	✓	Production - Stopped early - beamtrip
2066	2/21	6:09	6:30	H3	41k	✓	✓	Production
2067	2/21	6:38	7:39	Dummy	207k	✓	✓	Production
2068	2/21	7:39	8:40	Dummy	222k	✓	✓	Production
2069	2/21	8:48	9:49	He3	104k	✓	✓	Production
2070	2/21	10:13	11:23	He3	107k	✓	✓	Production
2071	2/21	11:24	12:59	He3	104k	✓	✓	Production - Beam Trip
2072	2/21	13:53	15:14	He3	108k	✓	✓	Production
2073	2/21	15:18	16:52	He3	104k	✓	✓	Production
2074	2/21	16:57	18:14	H3	104k	✓	✓	Production
2075	2/21	18:17	19:23	H3	127	✓	✓	production
2076	2/21	19:24	20:29	H3	119k	✓	✓	production.
2077	2/21	20:30	21:42	He3	122k	✓	✓	production.
2078	2/21	21:48	22:48	D2	112k	✓	✓	Production
2079	2/21	22:50	23:55	D2	125k	✓	✓	production.
2080	2/21	23:56	01:05	D2	82k	✓	✓	production
2081	2/22	01:23	02:13	D2	81k	✓	✓	production.
2082	2/22	2:20	3:25	He3	104k	✓	✓	

30x Mike

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2083	2/22	3:26	4:34	He 3	104K	✓	✓	production
2084	2/22	4:35	5:40	He 3	111K	✓	✓	production.
2085	2/22	5:41	6:10	He 3	34K	✓	✓	production.
2086	2/22	6:33	6:57:17	He 3	77K	✓	✓	production
2087	2/22	7:20	9:12	He 3	143K	✓	✓	production
2088	2/22	9:17	10:40	H 3	135K	✓	✓	production
2089	2/22	10:41	11:15	H 3	96K	✓	✓	production → Mac Terminated Beam.
2090	2/22	14:41	15:44	H 3	100K	✓	✓	production
2091	2/22	15:45	16:50	H 3	122K	✓	✓	production
2092	2/22	16:57	17:50	H 3	120K	✓	✓	
2093	2/22	17:54	19:17	D ₂	124K	✓	✓	
2094	2/22	19:18	20:17	D ₂	97K	✓	✓	TERMINATED - HALT C TO HIGH CURRENT TESTS
2095	2/22	20:22	21:40	EMPTY CELL	102K	✓	✓	
2096	2/22	21:41	22:58	EMPTY CELL	97K	✓	✓	
2097	2/22	23:06	00:20	He 3	112K	✓	✓	
2098	2/23	00:21	01:34	He 3	114K	✓	✓	
2099	2/23	01:35	02:39	He 3	115K	✓	✓	
2100	2/23	02:40	03:55	He 3	132K	✓	✓	
2101	2/23	03:55	05:05	He 3	106K	✓	✓	
2102	2/23	05:10	06:25	H 3	135K	✓	✓	

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2103	2/23	6:28	8:06	H-3	182K	✓	✓	
2104	2/23	8:07	9:13	3H	129K	✓	✓	Production 3H
2105	2/23	9:15	9:21	3H	4349			Production Junk
2106	2/23	9:30	10:54	3H	151K	✓	✓	Production
2107	2/23	11:03	12:25	D	142K	✓	✓	Production
2108	2/23	12:26	13:03	D	56K	✓	✓	Production ; 30 min of beam
2109	2/23	14:46	15:32	D	89K	✓	✓	Production
2110	2/23	15:33	16:23	D	85K	✓	OK	Production A.S
2111	2/23	16:37	17:18	D	64K	✓	✓	Production
2112	2/23	17:27	17:58	optics	90K	✓	✓	optics A.S
2113	2/23	18:01	18:40	Carbon		✓	✓	Production A.S
2114	2/23	18:39	18:40	Carbon	315K	✓	✓	Production PS8=10
2115	2/23	18:41	18:45	Carbon	905	✓	✓	Production PS8=10
2116	2/23	18:51	19:51	He3	91K	✓	✓	Production PS8=10
2117	2/23	19:53	20:54	He3	91K	✓	✓	Production
2118	2/23	20:55	21:58	He3	77K	✓	✓	Production
2119	2/23	22:06	23:11	He3	108K	✓	✓	Production
2120	2/23	23:12	00:15	He3	105K	✓	✓	Production
2121	2/24	00:25	01:25	3H	127K	✓	✓	Production
2122	2/24	01:27	01:52	3H	44K	✓	✓	Production

A.S

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2123	2/24	02:10	03:12	3H	110k	✓	✓	Production
2124	2/24	03:13	04:15	3H	132k	✓	✓	Production
2125	2/24	04:16	05:16	3H	117k	✓	✓	Production
2126	2/24	05:17	06:31	3H	140k	✓	✓	Production
2127	2/24	06:37	07:40	D	126k	✓	✓	Production
2128	2/24	07:41	08:42	P	121k	✓	✓	Production
2129	2/24	8:46	10:00	³ He3	109k	✓	✓	Production
2130	2/24	10:01	11:01	He3	106k	✓	✓	Production
2131	2/24	11:01	12:10	He3	112k	✓	✓	Production
2132	2/24	12:10	13:05	He3	81k	✓	✓	Production
2133	2/24	13:12	14:40	He3	133k	✓	✓	Production
2134	2/24	14:14	15:47	3H	122k	✓	✓	Production
2135	2/24	15:48	16:47	3H	127k	✓	✓	Production
2136	2/24	16:48	17:48	3H	120k	✓	✓	Production
2137	2/24	17:48	18:49	3H	119k	✓	✓	Production
2138	2/24	18:54	20:10	Deuterium	127k	✓	✓	Production
2139	2/24	20:11	21:09	D	114k	✓	✓	Production
2140	2/24	21:10	22:09	D	108k	✓	✓	Production
2141	2/24	22:13	23:12	³ He	103k	✓	✓	Production
2142	2/24	23:13	00:18	³ He	109k	✓	✓	Production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2143	2/25	00:20	01:19	^3He	105K	✓	✓	Production
2144	2/25	01:20	02:22	^3He	111K	✓	✓	Production
2145	2/25	02:23	03:26	^3He	115K	✓	✓	Production
2146	2/25	03:32	04:35	^3H	128K	✓	✓	Production
2147	2/25	04:35	05:34	^3H	118K	✓	✓	Production
2148	2/25	05:35	06:37	^3H	111K	✓	✓	Production
2149	2/25	06:38	07:48	^3H	141K	✓	✓	Production
2150	2/25	07:58	9:00	Dummy	242K	✓	✓	Production Kin15
2151	2/25	9:00	10:00	Dumpty	219K	✓	✓	Prod Kin15
2152	2/25	10:04	11:09	^3He	102K	✓	✓	Production Kin15
2153	2/25	11:10	12:20	^3He	114K	✓	✓	Production
2154	2/25	12:20	13:26	^3He	105K	✓	✓	Production
2155	2/25	13:27	14:32	^3He	104K	✓	✓	Production
2156	2/25	14:33	15:41	^3He	103K	✓	✓	Production
2157	2/25	15:48	16:58	^3H	122K	✓	✓	Production
2158	2/25	16:59	18:17	^3H	127K	✓	✓	Production, choppy beam
2159	2/25	18:17	19:27	^3H	105K	✓	✓	production, choppy beam
2160	2/25	19:28	20:30	^3H	126K	✓	✓	production, much better beam
2161	2/25	20:33	21:44	D_2	125K	✓	✓	D_2 production, choppy beam ~30 min.
2162	2/25	21:44	23:01	D_2	115K	✓	✓	D_2 production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2163	2/25	23:02	00:02	D ₂	107K	✓	✓	production
2164	2/26	00:12	01:17	He3	105K	✓	✓	production
2165	2/26	01:19	02:15	He3	88K	✓	✓	production (ended the run because no beam)
2166	2/26	04:40	05:50	He3	126K	✓	✓	production
2167	2/26	05:52	07:01	He3	112K	✓	✓	production
2168	2/26	07:02	8:11	He3	106K	✓	✓	production
2169	2/26	8:12	9:01	He3	82K	✓	✓	Production (50 min)
2170	2/26	9:08	10:15	empty cell	88K	✓	✓	Production
2171	2/26	10:16	11:01	empty cell	48K	✓	✓	Production
2172	2/26	15:10	15:13	None	585K			Shower pedestal check JUNK
2173	2/26	18:40	18:48	Carbon hole	68K	X	X	Spot H
2174	2/26	19:04	20:09	H3	128K	—	—	Production
2175	2/26	20:10	21:12	H3	132K	—	—	Production
2176	2/26	21:12	22:08	H3	113K	—	—	Production
2177	2/26	22:10	23:23	H3	149K	—	—	Production
2178	2/26	23:26	00:35	D2	137K	—	✓	Production
2179	2/27	00:36	01:44	D2	140K	✓	✓	Production
2180	2/27	01:45	02:45	D2	118K	✓	✓	production
2181	2/27	02:51	03:55	He3	116K	✓	✓	production
2182	2/27	03:56	04:57	He3	103K	✓	✓	production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2183	2/27	04:58	06:02	He3	107K	✓	✓	Production
2184	2/27	06:02	07:13	He3	111K	✓	✓	Production
2185	2/27	07:14	8:31	He3	134K	✓	✓	Production; 75 min
2186	2/27	12:46	13:54	He3	105K	✓	✓	Production
2187	2/27	14:25	15:29	3H	124K	✓	✓	Production
2188	2/27	15:30	16:45	3H	124K	✓	✓	Production
2189	2/27	16:46	17:47	3H	133K	✓	✓	Production
2190	2/27	17:49	18:54	3H	125K	✓	✓	Production
2191	2/27	18:57	20:07	D2	125K	✓	✓	Production
2192	2/27	20:08	21:12	D2	124K	✓	✓	Production
2193	2/27	21:18	22:24	He3	121K	✓	✓	Production
2194	2/27	22:24	23:34	He3	121K	✓	✓	Production
2195	2/27	23:34	00:38	He3	110K	✓	✓	Production
2196	2/28	00:39	01:42	He3	112K	✓	✓	Production
2197	2/28	01:42	02:23	He3	41K	X	X	Production - JUNK had been only 10 m
2198	2/28	03:22	04:31	He3	120K	✓	✓	Production
2199	2/28	04:37	05:53	H3	130K	✓	✓	Production
2200	2/28	05:54	07:00	H3	132K	✓	✓	Production
2201	2/28	07:01	08:21	H3	133K	✓	✓	Production
2202	2/28	08:22	09:34	H3	129K	✓	✓	Production

X

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2203	2/28	09:35	10:41	H3	146K	✓	✓	Production
2204	2/28	10:46	12:01	D2	148K	✓	✓	production
2205	2/28	12:01	13:03	D2	123K	✓	✓	production
2206	2/28	13:09	14:28	He3	114K	✓	✓	Production
2207	2/28	14:24	15:46	He3	119K	✓	✓	production
2208	2/28	15:46	16:54	He3	114K	✓	✓	production
2209	2/28	16:55	18:02	He3	118K	✓	✓	production
2210	2/28	18:03	19:07	He3	113K	✓	✓	production
2211	2/28	19:13	20:35	H3	147K	✓	✓	production
2212	2/28	20:35	21:06	H3	48K	✓	✓	production (mcc need to stop beam ^{so stop early})
2213	2/28	22:05	23:02	H3	109K	✓	✓	production
2214	2/28	23:03	00:18	H3	145K	✓	✓	production
2215	3/1	00:19	01:34	H3	135K	✓	✓	production
2216	3/1	01:39	02:44	D2	116K	✓	✓	Production
X 2217	3/1	02:45	02:56	D2				Production (JUNK) (NO BEAM)
2218	3/1	03:07	04:18	D2	132K	✓	✓	Production
2219	3/1	04:19	05:30	D2	113K	✓	✓	Production
2220	3/1	05:37	06:52	He3	120K	✓	✓	production
2221	3/1	06:52	08:08	He3	112K	✓	✓	production
2222	3/1	08:10	9:14	He3	112	✓	✓	production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2223	3/1	9:15	10:32	He3	121K	✓	✓	Production
2224	3/1	10:33	11:44	He3	101K	✓	✓	Production
2225	3/1	11:51	12:57	He3	111K	✓	✓	Production
2226	3/1	13:02	14:03	H3	133K	✓	✓	Production
2227	3/1	14:03	15:10	H3	130	✓	✓	production
2228	3/1	15:11	16:20	H3	133K	✓	✓	production
2229	3/1	16:21	17:29	H3	121K	—	—	Production
2230	3/1	17:36	18:44	Dummy	107K	—	—	Production
2231	3/1							→ Co DA CRASH!
2232	3/1	20:03	21:41	Dummy	264K	—	—	Production
2233	3/1	21:46	22:56	He3	117K	—	—	Production
2234	3/1	22:57	01:43	He3	248K	—	—	Production
2235		01:43	03:08	He3	136K			... trials
2236		3:10	4:19	He3	128K			... trials
2237		4:19	5:40	H3	125K			trials
2238		5:46	7:32	H3	144K			Beam shut off.
2239		14:44	14:57	Spot++				spot
2240		15:22	15:49	...				spot
2241		15:53	15:56	Calbar				Raster Cal. $\pm 8 = 10$
2242	3/2	16:05	17:27	H3	125K	—	—	Production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2243	3/2	17:28	18:40	H3	130K	/	/	Production
2244	3/2	18:41	17:40	H3	130K	/	/	Production
2245	3/2	19:47	20:59	H3	126K	/	/	Production
2246	3/2	21:00	22:29	H3	140K	/	/	Production
2247	3/2	22:49	23:54	D2	127K	/	/	Production
2248	3/2	23:55	00:54	D2	88K	/	/	Production
2249	3/3	02:13	03:16	D2	128K	/	/	Production
2250	3/3	03:18	04:11	D2	99K	/	/	Production
2251	3/3	04:15	05:19	He3	116K	/	/	Production
2252	3/3	05:20	06:30	He3	139K	/	/	Production
2253	3/3	06:30	07:36	He3	125K	/	/	Production
2254	3/3	07:37	08:00	He3	41K	/	/	Production
2255	3/3	08:00	9:00	He3	94K	/	/	Production. A.S
2256	3/3	09:02	9:24	He3	25K	✓	✓	Production - A.S stop
2257	3/3	12:10	13:11	He3	109K	✓	✓	Production
2258	3/3	13:13	14:18	He3	115	✓	✓	Production
2259	3/3	14:19	15:24	He3	113	✓	✓	production
2260	3/3	15:25	16:23	He3	105K	/	/	production
2261	3/3	14:33	17:35	H3	114K	/	/	production
2262	3/3	17:30	18:37	H3	131K	/	/	Production

target
is 112

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2263	3/3	18:38	19:40	H3	125K	✓	✓	Production ^{PASTE OF} _{END OF RUN}
2264	3/3	21:36	21:44	Carbon	2.1M	N/A	N/A	Commission
2264	3/3	21:36	21:44	Carbon	2.1M	N/A	N/A	Commission
2265	3/3	22:11	23:23	H3	156K	✓	✓	Production
2266	3/3	23:25	00:50	H3	169K	✓	✓	Production
2267	3/3	00:51	2:01	H3	145K	✓	✓	Production
2268	3/4	2:06	3:14	He3	119K	✓	✓	Production
2269	3/4	3:18	4:27	He3	126K	✓	✓	Production
2270	3/4	4:28	5:40	He3	117K	✓	✓	Production
2271	3/4	5:40	5:48	He3				Production Junk - no beam
2272	3/4	5:56	7:09	He3	123K	✓	✓	Production
2273	3/4	7:15	8:15 AM	H3	130K	✓	✓	Production
2274	3/4	8:18 AM	9:30 AM	H3	133K	✓	✓	Production
2275	3/4	9:32	10:36 AM	H3	130K	✓	✓	Production
2276	3/4	10:37	11:47 AM	H3	142K	✓	✓	Production
2277	3/4	11:53	13:15	He3	140K	✓	✓	Production
2278	3/4	13:16	14:34	He3	123K	✓	✓	Production
2279	3/4	14:35	15:57	He3	125K	✓	✓	Production
2280	3/4	15:58	16:58	He3	86K	✓	✓	Production
2281	3/4	17:00	17:59	He3	93	✓	✓	Production

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2282	3/4	18:04	19:01	Tritium	71K	✓	✓	Production Tritium Run
2283	3/4	19:02	20:05	Tritium	107K	✓	✓	Production Tritium Run
2284	3/4	20:07	21:17	Tritium	115	✓	✓	Tritium Run
2285	3/4	21:19	22:10	Tritium	83K	✓	✓	Tritium Run
2286	3/5	00:49	02:08	H3	127K	✓	✓	production
2287	3/5	02:09	03:10	H3	120K	✓	✓	production
2288	3/5	03:11	03:51	H3	49K	✓	✓	production
2289	3/5	06:12	07:23	D2	119K	✓	✓	production
2290	3/5	07:24	9:00	D2	150K	✓	✓	production
2291	3/5	12:00	12:17	Home	198K	N/A	N/A	Other - LASER CALIB'4
2292								
2293								
2294								
2295	03/07	16:50	03/10 11:54	Home	1.8M			Cosmic checks ^{triger} ps2=ps3=1
2296	03/10	11:53	03/13 16:41	Home	2.2M	Code crashed		Cosmic check triger ps1=ps2=1
2297	03/13	16:50	03/16 13:58	Home	1.8M			Cosmic check triger ps3 only
2298	08/16	14:07	03/19 13:58	Home	1.4			Cosmic check triger ps1=ps2=1
2299	08/19	14:02	03/21 14:30	Home	2.0M			Cosmic check triger ps1=ps3=1
2300			14:30					Cherenko v PNT 4
2301								call change checks

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2322	3/23	00:01	01:10	Optics	209k	—	—	Optics MF - step 1 w/ optics
2323								
2324	3/23	00:01	01:10	OPTICS	209k	✓	✓	OPTICS MF - step 1 w/ optics
2325	3/24	01:11	01:52	OPTICS	493k	✓	✓	OPTICS; Q1 = 847.46
2326	3/24	01:54	02:21	OPTICS	450k	✓	✓	Q1 = 847.46 [P ₀ = 3.82] ✓
2327	3/24	02:28	03:12	OPTICS	502k	—	—	Q1 = 838.87 Amps {Nominal settings}
2328	3/24	03:13	03:39	OPTICS	502k	—	—	Q1 = 838.87 Amps [P ₀ = 3.82] ✓
2329	3/24	03:40	04:10	OPTICS	500k	—	—	Q1 = 838.87 [P ₀ = 3.82] ✓
2330	3/24	04:11	04:57	OPTICS	688k	✓	✓	Q1 = 838.87 [P ₀ = 3.82]
2331	3/24	04:58	05:30	OPTICS	327k	—	—	Q1 = 838.87 [P ₀ = 3.82]
2332	3/24	05:05	06:35	optics	501k	✓	✓	Q1 = 838.87 [P ₀ = 3.82]
2333	3/24	06:42	07:20	OPTICS	618k	✓	✓	Q1 = 830.6 A [P ₀ = 3.82]
2334	3/24	07:21	7:54	OPTICS	633k	✓	✓	Q1 = 830.6 A [P ₀ = 3.82]
2335	3/24	08:22	8:44	optics	621k	✓	✓	regulator on; P ₀ = 3.57
2336	3/24	8:45	9:17	optics	648k	✓	✓	P ₀ = 3.57
2337	3/24	9:17	9:47	optics	657k	✓	✓	P ₀ = 3.57
2338	3/24	9:47	10:14	optics	571k	✓	✓	P ₀ = 3.57
2339	3/24	10:15	10:38	optics	588k	✓	✓	P ₀ = 3.57
2340	3/24	10:38	11:01	optics	557k	✓	✓	P ₀ = 3.57
2341	3/24	11:15		optics		✓	✓	P ₀ = 3.1 ; regulator on ← RS2 PMT peak not right probably junk.

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2342	3/24	11:27	11:36	optics		✓	✓	52 RPMT 7 ADC peaks from ^{from} golden run.
2343	3/24	11:43	11:55	optics		✓	✓	
2344	3/24	12:03	12:53	optics				cosmic, no beam.
2345	3/24	13:04	13:19	optics	709k	✓	✓	P0 = 3.1 GeV, good run.
2346	3/24	13:19	13:30	optics	696k	✓	✓	
2347	3/24	13:31	13:44	optics	728k	✓	✓	
2348	3/24	13:45	13:59	optics	718k	✓	✓	
2349	3/24	13:59	14:10	optics	718k	✓	✓	
2350	3/24	14:10	14:25	optics	774k	✓	✓	
2351	—	14:28	14:43	—	789k	✓	✓	
2352	—	14:43	14:56	—	801k	✓	✓	
2353	—	14:56	15:04	—	17k	X	•	Most are cosmic
2354	—	15:08	15:21	—	811k	✓	✓	P0 = 3.1 GeV good run
2355	—	15:21	15:39	—	713k	✓	✓	
2356	—	15:43	16:13	Carbon	248K	✓	✓	CB/3.1/Q1 nominal
2357	3/24	16:30	17:13	optics	10.7M	✓	✓	MF/2.5/Q1 nominal
2358	3/24	18:00	18:43	optics		✓	✓	MF/1.1/Q1 nom
2359	3/24	18:48	19:12	optics	291K	✓	✓	MF/1.1/Q1 no TZ only
2360	3/24	20:05	22:26	Ti	1M	✓	✓	Ti/3.82/Q1: 847.4A
2361	3/24	22:30	00:32	Titanium	1M	✓	✓	Ti/3.82/Q1 nominal

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2362	3/25	00:37	02:09	Titanium	1M	✓	—	Ti+ / P ₀ = 3.82 / Q ₁ = 830.6A
2363	3/25	02:13	03:41	Titanium	1M	—	—	Ti+ / P ₀ = 3.82 / Q ₁ = 819.7A
2364	3/25	03:48	04:53	Optics	1M	—	✓	Optics / P ₀ = 3.82 / Q ₁ = 819.7A
2365	3/25	04:54	05:47	Optics	700K	✓	—	Optics / P ₀ = 3.82 / Q ₁ = 819.7A (End early)
2366	3/25	06:12	07:26	Optics	1.3M	—	—	Optics / P ₀ = 3.82 / Q ₁ = 819.7
2367	3/25	07:27	08:44	Optics	1.1M	✓	✓	Optics / P ₀ = 3.82 / Q ₁ = 819.7
2368	3/25	08:58	09:24	Titanium	382K	✓	✓	Ti+ / P ₀ = 3.57 / Q = 774.2 (End early)
2369	3/25	09:51	10:23	Titanium	505K	✓	✓	Ti+ / P ₀ = 3.57 / Q = 774.2 (End early)
2370	3/25	10:54	12:02	Titanium	1.24M	✓	✓	Ti+ / P ₀ = 3.57 / Q = 774.2 (1.24M event)
2371	3/25	12:05	13:20	Titanium	1.2M	✓	✓	Ti+ / P ₀ = 3.57 / Q = 770.34 (regulator on) (3.57)
2372	3/25	13:21	13:45	Titanium	316K	✓	✓	Ti+ / P ₀ = 3.57 / Q = 770.34 (regulator on) Beam less stable
2373	3/25	13:46	14:26	Titanium	672K	✓	✓	Ti+ / P ₀ = 3.57 / Q = 770.34 (regulator on)
2374	3/25	14:33	14:50	Titanium	287K	✓	✓	Ti+ / P ₀ = 3.57 / Q = 770.34 (regulator on)
2375	3/25	15:01	15:13	Titanium	—	—	—	Ti+ / P ₀ = 3.57 / Q = 766.5 (regulator off) (Junk)
2376	3/25	15:16	17:00	Titanium	1.6M	✓	✓	Ti+ / P ₀ = 3.57 / Q = 766.5 (regulator off)
2377	3/25	17:00	19:00	Ti	5.3M	✓	✓	3.1 GeV, regulator on
2378		19:15	20:23	Ti	5.5M			2.5 GeV, regulator on
2379								T1 rate too high
2380		20:38	20:58	Ti	230K			PS1=100, Q 1.1 GeV
2381		21:30	23:00	Ti	857K	✓	✓	3.93, 843.3A

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2382								
2383	3/25	23:03	23:11	T ₂				harp scan A
2384	3/25	23:26	23:30	T ₂				harp scan B
2385	3/26	00:09	00:24	T ₂				harp scan C
2386	3/26	00:38	00:45	T ₁				harp scan D
2387	3/26	00:50	00:52	T ₁				Junk
2388	3/26	01:00	01:08	T ₁				harp scan E Junk
2389	3/26	01:18	01:28	T ₁				harp scan E
2390	3/26	01:33	01:38	T ₁				harp scan F
2391	3/26	01:50	02:59	optics				Junk
2392	3/26	02:00	02:18	optics	380K			optics / P ₁ = 3.82 / Q ₁ = 847.4
2393	3/26	02:21	02:28	optics	103K			optics / P ₀ = 3.82 / Q ₁ = 847.4
2394	3/26	03:10	04:03	optics	894K			optics / P ₀ = 3.82 / Q ₁ = 847.4
2395	3/26	05:21	06:06	optics	393K			
2396	3/26	10:50		Dummy Carbon hole				cosmic
2397	3/26	12:16	12:48	Dummy Carbon hole				cosmic
2398	3/26	12:50	12:53	Carbon hole				P ₀ = 3.82
2399	3/26	13:01	13:10	Carbon hole				P ₀ = 3.1
2400	3/26	13:21	13:24	Dummy	83K			P ₀ = 3.1 Router on
2401	3/26	13:42	13:46	Dummy	83K	✓	✓	P ₀ = 3.82 regulator on Raster off

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2402	3/26	13:47	14:59	Dummy	1.0M			$P_0 = 3.82, Q_1 = 847.4$ regulator off; Raster off
2403	3/26	15:05	16:07	Multifoil	35k			$P_0 = 3.93, Q_1 = 843.3$ regulator off
2404	3/26	17						
2405	3/26	17:00	17:13	positron Dummy	2.8M	✓	✓	positron run $I = 10.4 A$
2406	3/26	17:20	17:21	Dummy	226k	✓	✓	scod
2407	3/26	17:23	17:52	Dummy	6536k	✓	✓	scod read every 20 counts
2408	3/26	17:57	18:06	Dummy	1.9M	✓	✓	
2409								} tests for prescales
2410								
2411								
2412								
2413								
2414	3/26	18:34	18:43	Dummy	722K	✓	✓	$PS1 = PS2 = PS3 = 2$ short run no beam for a little while
2415	3/26	21:01	22:11	Dummy	339K	✓	✓	$PS1 = 0, PS2 = PS3 = 1$ Beam off 22:11 and on
2416	3/26	22:14	22:43	Dummy	269K	✓	✓	scod stopped to move spectrometer
2417	3/26	23:21	00:24	Dummy	409K			Sample changed = 17.584° ← new left
2418	3/27	00:25	01:26	Dummy	526K	✓	✓	$PS1 = 0, PS2 = PS3 = 1$ 17.584°
2419	3/27	1:44	1:45	Dummy	8K	-	-	Angle = 19.12° Short Run ←
2420	3/27	1:45	2:11	Dummy	1.5M	✓	✓	19.12° $PS1 = PS2 = PS3 = 1$
2421	3/27	2:27	2:35	Dummy	6K	-	-	No Beam

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2422	3/27	2:58	3:39	Dummy	6.2M	✓	✓	19.12° PSI=PS2=PS3=1 I=10 μ A
2423	3/27	3:49	5:00	Dummy	11.7M	✓	✓	19.12°
2424	3/27	5:02	6:00	Dummy	8.4M	✓	✓	19.12°
2425	3/27	6:29	7:34	Dummy	6.3M	✓	✓	Angle set to 20.573°
2426	3/27	8:34	8:25	Dummy	6.0M 4.2m	✓	✓	20.57° I=10 μ A
2427	3/27	8:52	9:55	H ₂	10.5m	✓	✓	17.5°
2428	3/27	9:58	10:54	H ₁	10.5m	✓	✓	Kinl Pos.
2429	3/27	10:59	11:02	H ₁	2.6m			Kinl Pos.
2430	3/27	11:10	11:14	H ₁	1.6m			Coda Test add Q ₁ cur
2431								
2432	3/27	16:10	16:46	Home Run				events 67275/27750
2433	3/27	16:49	17:46	Home				162763/52283 L/R
2434	3/27	17:52	17:55	Carbon ^{Kinl} _{collor.}				571533/630447
2435	3/27	17:58	18:38	Carbon				700146/28559
2436	3/27	18:43	19:09	Carbon				1525258/25700
2437	3/27	19:27	19:53	D ₂ target				5544120/42806
2438	3/27	19:54	20:22	D ₂				5848607/44761
2439	3/27	20:26	20:55	D ₂				4687135/40435
2440	3/27	21:00	21:08	Tritium				68571/3242
2441	3/27	21:19	21:29	T ₂ form				1695890/14827

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2442	3/27	21:38	22:03	Tritium				5346305/91680
2443	3/27	22:05	22:31	Tritium				4993985/40593
2444	3/27	22:32	23:01	Tritium				5587488/45937
2445	3/27	23:07	23:29	Hydrogen				4500027/91683
2446	3/27	23:34	00:22	Empty				5597578/2446
2447	3/28	00:45	1:46	He3				low current, 10 ¹⁵ A & hrs increased ^{2825035/2447} to 20MB
2448	3/28	1:47	3:16	He3				5174990/2448
2449	3/28	3:22	4:32	H				4161826/2449
2450	3/28	4:33	5:54	H				7049508/2450
2451	3/28	6:06	7:13	D				5456018/2451
2452	3/28	7:13	8:17	D	557K			
2453	3/28	8:29	9:00	H3	1.8M	✓	✓	kin 3 positrons
2454	3/28	10:31	11:07	H3	1.8M 3.7m	✓	✓	kin 3 - positrons
2455	3/28	11:10	11:37	H3	2m	✓	✓	kin 3 positrons
2456	3/28	11:40		H3				Coda crash
2457	3/28	11:40		H3	1.6m	✓	✓	kin 3 positrons
2458	3/28	12:06	12:26	H3	1.3m	✓	✓	...
2459		12:28	12:33	H3	176K		 killed coda
2460		12:41	13:15	H3	2.3m			...
2461	3/28	13:21	13:49	Empty Cell	1.51M	✓	✓	

2/3
2/3

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2462	3/28	13:53	14:30	Empty Cell	1.2M	✓	✓	Crgd down in South Linac
2463	3/28							COSMICS
2464	3/28	16:03	17:11	Home	48K	✓	✓	COSMICS
2465	3/28	17:15	17:52	Home	427K			T8=500 T8=500 user
2466	3/28	18:44	22:25	Home	159K			cosmic
2467	3/28	23:08	23:09	Home	823	x	x	beam without target
2468	3/28	23:22	23:25	C-hole	67K	✓	✓	spot++
2469	3/28	23:27	23:31	Carbon	950K	—	—	T8=10, raster
2470	3/28	23:53	00:04	D	777K			PS1=PS2=PS3=1
2471	3/28	00:20	00:22	Home	—	—	—	PS8=500 Acc=0 Yunk 1 BEM calibr
2472	3/28	00:33	1:22	Home	607K			BEM calibr. PS8=500
2473	3/28	1:24	1:31	Dummy		—	—	PS1=PS2=PS3=1 I=22μA 40% DT
2474	3/28	1:32	1:35	Dummy	153K	—	—	P2=PS3=1 I=22μA
2475	3/28	1:39	1:45	Empty	342K	✓	✓	PS1=PS2=PS3=1 I=22μA
2476	3/29	1:49	2:06	1H	2.1M	✓	✓	I=22μA 1 8% DT
2477	3/29	2:07	2:28	1H	2M	✓	✓	I=22μA 2
2478	3/29	2:28	2:49	1H	2M	✓	✓	I=22μA 3
2479	3/29	2:50	3:48	1H	1.5M	✓	✓	No Beam long time ~40 min I=22μA 4
2480	3/29	4:08	4:15	1H	0.5M	—	—	Beam position is not stable I=22μA Yunk 1
2481	3/29	4:19	4:29	1H	1M	✓	✓	I=22μA 5

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2482	3/29	4:33	4:43	Empty	377k	✓	✓	$I = 11 \mu A$
2483	3/29	4:47	5:04	1H	1M	✓	✓	$I = 11 \mu A$ 1
2484	3/29	5:04	5:20	1H	1M	✓	✓	$I = 11 \mu A$ 2
2485	3/29	5:21	5:45	1H	1M	✓	✓	$I = 11 \mu A$ 3
2486	3/29	5:46	6:03	1H	1M	✓	✓	$I = 11 \mu A$ 4
2487	3/29	6:04	6:23	1H	1M	✓	✓	$I = 11 \mu A$ 5
2488	3/29	6:24	6:43	1H	1M	✓	✓	$I = 11 \mu A$ 6
2489	3/29	6:44	6:59	1H	1M	✓	✓	$I = 11 \mu A$ 7
2490	3/29	7:00	7:17	1H	1M	✓	✓	$I = 11 \mu A$ 8
2491	3/29	7:22	7:46	Empty	600k	✓	✓	$I = 22 \mu A$
2492	3/29	7:50	8:28	2H(D)	2.8M	✓	✓	$I = 22 \mu A$
2493	3/29	8:29	8:53	2H(D)	2.6M	✓	✓	$I = 22 \mu A$
2494	3/29	9:03	9:15	Empty	475k	✓	✓	↑ $11 \mu A$
2495	3/29	9:19	9:36	2H(D)	1M	✓	✓	$11 \mu A$
2496	3/29	9:37	9:59	2H(D)	1.1M	✓	✓	Boiling Check $11 \mu A$
2497	3/29	10:00	10:16	2H(D)	1.2M	✓	✓	↓ $11 \mu A$
2498	3/29	10:16	10:34	2H(D)	1.1M	✓	✓	$11 \mu A$
2499	3/29	10:41	10:57	Empty	400k	✓	✓	trippy beam $22 \mu A$
2500	3/29	11:06	11:17	3H	1.1M	✓	✓	$22 \mu A$
2501	3/29	11:18	11:35	3H	2.2M	✓	✓	$22 \mu A$

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2502	3/29	11:36	12:03	^3H	1.6M	✓	✓	Boiling check 22 μA
2503	3/29	12:04	12:27	^3H	2.3M	✓	✓	& production 22 μA
2504	3/29	12:34	12:42	Empty	300k	✓	✓	11 μA
2505	3/29	12:47	13:09	^3H	1M	✓	✓	11 μA
2506	3/29	13:09	13:25	^3H	1.3M	✓	✓	11 μA
2507	3/29	13:31	13:46	^3H	1.2M	✓	✓	11 μA
2508	3/29	13:47	14:05	^3H	1.1M	✓	✓	11 μA
2509	3/29	14:05	14:38	^3H	1.4M	✓	✓	11 μA
2510	3/29	14:39	15:15	^3H	1.2M	✓	✓	11 μA
2511	3/29	15:16	15:36	^3H	1M	✓	✓	11 μA
2512	3/29	15:43	15:51	Empty	400k	✓	✓	16 μA
2513	3/29	15:56	16:12	^3H	1.8M	✓	✓	16 μA
2514	3/29	16:18	16:35	^3H	1.8M	✓	✓	16 μA
2515	3/29	16:32	16:52	^3H	0.6M	✓	✓	beam off ~ > 8 min 16 μA
2516	3/29	16:52	17:26	^3H	1.2M	✓	✓	drippy beam, then beam off 16 μA
2517	3/29	19:34	19:52	∅				cosmic 0 μA
2518	3/29	19:54	19:57	∅	200K			pedestal run PS8=100 0 μA
2519	3/29	20:33	21:15	∅	2M	✓	✓	Boiling check / drippy beam 16 μA ←
2520	3/29	21:16	21:37	∅	1.9M	✓	✓	16 μA
2521	3/29	21:38	22:07	∅	2.1M	✓	✓	16 μA

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2522	3/29	22:08	22:27	3H	17M	✓	✓	Boiling some tripp / beam 16 μ A
2523	3/29	22:59	23:18	Empty	84K	✓		Beam tripp / of most of the time 22 μ A
2524	3/29	23:58	0:5	Empty	449K	✓	✓	Boiling / 22 μ A 22 μ A
2525	3/30	0:12	0:38	He	1180K	✓	✓	Boiling 22 μ A.
2526	3/30	0:40	1:05	He	1533K	✓	✓	Boiling / 22 μ A
2527	3/30	1:07	1:38	He	1580K	✓	✓	Boiling / 22 μ A
2528	3/30	1:40	02:01	He	1860K	✓	✓	Boiling / 22 μ A
2529	3/30	02:02	02:22	He	1455K	✓	✓	Boiling / 22 μ A
2530	3/30	02:24	02:55	He	1952K	✓	✓	Boiling / 22 μ A.
2531	3/30	02:57	03:23	He	2597K	✓	✓	Boiling / 22 μ A.
2532	3/30	03:30	03:54	Empty cell	518K	✓	✓	Boiling / 11 μ A
2533	3/30	03:57	04:13	3He	754K	✓	✓	Boiling check / 11 μ A
2534	3/30	04:15	04:37	3He	1054K	✓	✓	Boiling check / 11 μ A
2535	3/30	04:39	04:58	3He	896K	✓	✓	Boiling check / 11 μ A.
2536	3/30	05:00	05:22	3He	939K	✓	✓	Boiling check / 11 μ A
2537	3/30	05:23	5:40	3He	881K	✓	✓	Boiling check / 11 μ A.
2538	3/30	05:42	05:59	3He	857K	✓	✓	Boiling check / 11 μ A
2539	3/30	06:01	06:18	3He	759K	✓	✓	Boiling check / 11 μ A
2540	3/30	06:19	06:35	3He	817K	✓	✓	Boiling check / 11 μ A.
2541	3/30	06:37	07:06	3He	710K	✓	✓	Boiling check / 11 μ A

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2542	03/30	07:07	07:31	3He	939K	✓	✓	Boiling check / 11 μ A
2543	3/30	07:32	07:52	3He	913K	✓	✓	Boiling check / 11 μ A
2544	3/30	07:56	08:10	Empty cell	596K	✓	✓	Boiling check / 11 16 μ A.
2545	3/30	08:13	8:45	3He	427K	✓	✓	(only 5 mmes beam). 16 μ A.
2546	3/30	9:15	9:39	3He	1458K	✓	✓	
2547	3/30	9:40	10:03	3He	123M	✓	✓	_____ 16 μ A.
2548	3/30	10:03	10:19	3He	121M	✓	✓	_____ 16 μ A
2549	3/30	10:19	10:43	3He	126M	✓	✓	_____ 16 μ A
2550	3/30	10:43	11:03	3He	127M	✓	✓	_____ 16 μ A
2551	3/30	11:03	11:23	3He	127M	✓	✓	_____ 16 μ A
2552	3/30	11:23	11:46	3He	130M	✓	✓	_____ 16 μ A
2553	3/30	11:46	12:06	3He	132M	✓	✓	_____ 16 μ A
2554	3/30	12:06	12:27	3He	137M	✓	✓	_____ 16 μ A
2555	3/30	12:30	12:47	Empty Cell	736K	✓	✓	_____ 16 μ A
2556	3/30	12:50	13:07	1H	1.7M	✓	✓	_____ 16 μ A
2557	3/30	13:08	13:25	1H	1.7M	✓	✓	Boiling. 16 μ A
2558	3/30	13:26	13:45	1H	1.64M	✓	✓	_____ 16 μ A
2559	3/30	13:45	14:02	1H	1.59M	✓	✓	_____ 16 μ A.
2560	3/30	14:03	14:21	1H	1.48M	✓	✓	_____ 16 μ A
2561	3/30	14:31	15:03	1H	2.06M	✓	✓	_____ 16 μ A

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2562	3/30	19:07	19:12	Carbon hole				Beam back after 4h run spot # 16hA
2563	3/30	19:17	19:40	Euphy	833K	✓	✓	16hA
2564	3/30	19:45	20:24	Deuterium	1.9M	✓	✓	trippy beam 16hA
2565	3/30	20:25	21:02	"	1.88M	✓	✓	10min beam with NO TRIP! 16hA
2566	3/30	21:02	21:36	"	1.9M	✓	✓	16hA
2567	3/30	21:05	22:23	Carbon hole				Spectrometer moved to kin 4 spot # $\theta = 21.94^\circ$ 16hA
2568	3/30	22:28	22:39	Carbon foil				Reenter calibrat 22hA
2569	3/30	22:42	22:45	"				PS8=10 X Beam tripped / off
2570	3/30	22:47	22:55	"				PS8=10
2571	3/30	22:58	23:09	Carbon foil				Optics 22hA
2572	3/30	23:12	23:30	Dummy	1.1M	✓	✓	Kin 4 Dummy 22hA
2573	3/30	23:33	00:16	Euphy	400K	✓	✓	Euphy 22hA
2574	3/31	00:19	00:50	^3He	560K	✓	✓	^3He Kin 4 ^3He
2575	3/31	00:51	1:22	^3He	553K	✓	✓	" "
2576	3/31	01:23	1:54	^3He	565K	✓	✓	" "
2577	3/31	02:00	2:34	^3H	752K	✓	✓	Kin 4 ^3H (Tritium)
2578	3/31	02:34	3:04	^3H	792K	✓	✓	" " "
2579	3/31	03:08	3:43	^2H (D)	798K	✓	✓	Kin 4 ^2H (Deuterium)
2580	3/31	03:43	4:22	^2H (D)	836K	✓	✓	" " "
2581	3/31	04:25	5:01	H	754K	✓	✓	Kin 4 H (Hydrogen)

→
IN 4
↓

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2582	3/31	5:01	5:33	H	202k	✓	✓	Kin4, Hydrogen
2583	3/31	5:34	6:04	H	677k	✓	✓	Kin4, Hydrogen.
2584	3/31	6:21	7:05	Empty	489k	✓	✓	Kin4, Empty
2585	3/31	7:15	7:56	³ He	311k	✓	✓	Kin4: ³ He ended after
2586	3/31	12:22	12:30	3He C-hole	33k			Kin4: 3He C-hole
2587	3/31	12:35	13:10	3He	560k	✓	✓	Kin4: 3He, 22μA
2588	3/31	13:11	14:00	3He	560k	✓	✓	Kin4: 3He, 22μA
2589	3/31	14:00	14:21	3He	320k	✓	✓	Kin4: 3He, 22μA
2590	3/31	14:25	14:59	3H	850k	✓	✓	Kin4: 3H, 22μA
2591	3/31	14:59	15:42	3H	855k	✓	✓	Kin4: 3H, 22μA
2592	3/31	15:42	16:16	3H	873k	✓	✓	Kin4: 3H, 22μA
2593	3/31	16:22	17:10	2H(D)	853k	✓	✓	Kin4: 2H 22μA
2594	3/31	17:14	17:17	2H(D)	3k	✓	✓	short run - beam off (mcc called)
2595	3/31	20:34	20:52	Carbon hole				Spot ++ X=A 1.6
2596	3/31	20:57	21:01	Carbon hole				Spot ++ new BPM A, BPM B x settings X-A-1.8
2597	3/31	21:05	21:13	Carbon hole				Spot ++ new → X-A=1.4
2598	3/31	21:29	22:24	2H(D)	813k	✓	✓	Kin4: 2H 22μA XXXX
2599	3/31	22:34	23:29	H	750k	✓	✓	Kin4: H Hydrogen
2600	3/31	23:30	0:22	H	757k	✓	✓	Kin4: H 22.5μA
2601	04/01	0:25	01:12	H	765k	✓	✓	Kin4 = H 22.5μA

30 min down

← 3H

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2602	04/01	01:16	01:35	H	106K	✓	✓	Kin 4, H, 22.5 uA
2603	04/01	01:39	02:26	3He	381K	✓	✓	Kin 4, He3 22.5 uA
2604	04/01	02:27	03:22	Helium3	802K	✓	✓	Kin 4, He3 22.5 uA
2605	04/01	03:31	04:01	Tritium	697K	✓	✓	Kin 4, Tritium, 22.5 uA
2606	04/01	04:03	04:28	Tritium	622K	✓	✓	Kin 4, Tritium, 22.5 uA
2607	04/01	04:36	04:52	Empty cell	155K	✓	✓	Kin 4, Empty cell, 22.5 uA
2608	04/01	05:07	05:21	Carbon hole	21K	✓	✓	Kin 4, Carbon hole, 22.5 uA
2609	04/01	05:26	05:34	Carbon foil	1904K	✓	✓	Kin 4, Carbon foil, 22.5 uA
2610	04/01	05:38	05:46	Carbon foil	23K	✓	✓	Kin 4, Carbon foil, 22.5 uA
2611	04/01	05:52	05:58	OPTICS	92K	✓	✓	Kin 4, OPTICS 22.5 uA
2612	04/01	06:03	06:27	Dummy	389K	✓	✓	Kin 4 Dummy, 22.5 uA
2613	04/01	06:34	07:11	Helium 3	168K	✓	✓	Kin 4 Helium 3 22.5
2614	04/01	07:14	07:54	Helium 3	161K	✓	✓	Kin 4 Helium 3 22.5 uA
2615	04/01	07:56	8:38	Helium 3	162K	✓	✓	Kin 4 Helium 3 22.5 uA
2616	04/01	08:43	9:20	3H (tritium)	235K	✓	✓	Kin 7 3H 22 uA
2617	04/01	9:21	10:00	3H	218K	✓	✓	Kin 7 3H 22 uA
2618	04/01	10:13	11:03	3H	274K	✓	✓	Kin 7 3H 22 uA
2619	04/01	11:05	12:00	D	258K	✓	✓	Kin 7 D 22 uA
2620	04/01	12:01	13:10	D	360K	✓	✓	Kin 7 D 22 uA
2621	04/01	13:19	13:56	Empty	143K			Kin 7 Empty

← Kin 7
↓

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2622	04/01 13:57	13:57	14:41	Empty	145K	✓	✓	kin 7 Empty 22 μ A
2623	04/01	14:43	15:22	Helium-3	170K	✓	✓	kin 7 Helium-3 22 μ A
2624	04/01	15:23	16:19	3 He	220K	✓	✓	kin 7 Helium-3 22 μ A
2625	04/01	16:19	16:50	3 He	143K	✓	✓	kin 7 Helium-3 22 μ A
2626	04/01	16:57	17:50	3 H	115K	✓	✓	kin 7 Tritium 22 μ A
2627	04/01	17:57	19:16	3 H	271K	✓	✓	kin 7 Tritium 22 μ A
2628	04/01	19:18	19:50	3 H	139K	✓	✓	kin 7 Tritium 22 μ A
2629	04/01	19:58	20:35	3 H	222K	✓	✓	kin 7 Tritium 22 μ A
2630	04/01	20:50	21:01	Carbon foil				kin 9 Carbon hole spot #
2631	04/01	21:05	21:17	Carbon foil				kin 9 " " spot #
2632	04/01	21:20	21:32	Carbon foil				kin 9
2633	04/01	21:35	21:42	Carbon foil				PS1=PS2=PS3=0
2634	04/01	21:47	21:58	Optics ^{Multif} foil				kin 9
2635	04/01	22:04	22:39	Dummy	308K	✓	✓	kin 9 Dummy 22 μ A
2636	04/01	22:44	23:53	3 He	167K	✓	✓	kin 9 Helium 3 22 μ A
2637	04/01	23:53	01:01	3 He	179K	✓	✓	kin 9 Helium 3 22 μ A
2638	04/02	01:03	02:11	3 He	191K	✓	✓	kin 9 Helium 3 22 μ A
2639	04/02	02:16	03:22	3 H	261K	✓	✓	kin 9 Tritium 22 μ A
2640	04/02	03:23	04:33	3 H	267K	✓	✓	kin 9 Tritium 22 μ A
2641	04/02	04:37	05:41	Deuterium	223K	✓	✓	kin 9 Deut. 22 μ A

beam off run ended earlier very trippy beam!

kin 9

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2642	04/02	05:42	06:53	Deuterium	233K	-	-	kin 9 Deut 22MA
2643	04/02	07:01	08:08	Empty cell	139K	✓	-	kin 9 Empty cell 22MA
2644	04/02	08:12	08:32	Deuterium	62K	✓	-	Extra Deuterium Before Access
2645	04/02	11:17	11:18	home	92k			cosmics/clock ongoing
2646	04/02	15:31	19:02	Carbon Hole				Spot# / check cosmics
2647	04/02	19:05	19:13	Carbon Hole				spot#
2648	04/02	19:17	19:31	Helium 3	45K	✓	✓	kin 9: Helium 3 22MA MCC called beam off
2649	04/02	20:50	21:53	Helium 3	180K	✓	✓	kin 9: Helium 3 22MA
2650	04/02	21:58	22:38	Helium 3	96K	✓	✓	kin 9 Helium 3 (MCC beam off) 22MA
2651	04/02	22:50	23:38		123K	✓	✓	kin 9 Helium 3 22MA
2652	04/02	23:55		^				kin 9 Helium 3 22MA
2653	04/03	0:15	1:15	Helium 3	174K			kin 9 He 3 22MA forgot change
2654	04/03	1:29	2:50	Tritium	176K			kin 9 Tritium 22MA change
2655	04/03	2:55	3:55	Tritium	261K			kin 9 Tritium 22MA 10
2656	04/02	3:58	4:16	Tritium				kin 9 Tritium 22MA
2657	04/03	4:20	5:07	Deuterium	145K			kin 9 Deuterium 22MA
2658	04/03	5:25	5:54	Carbon Hole	42K			kin 11 Carbon Hole 22MA
2659	04/03	6:00	6:08	Carbon Target	2536K			kin 11 Carbon Target PS8=16
2660	04/03	6:10	6:33	Harp scan				Harp scan Spot, PS8=100
2661	04/03	6:42	7:07	Carbon Target	41.6K			Carbon Target, PS8=0

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2662	04/03	7:08	7:42	Optics	141.7K			Optics target kin 11
2663	04/03	7:44	8:00	Empty	25K			Empty target kin 11
2664	04/03	12:41	-	Empty Home				water calibration
2665	04/03	13:52	15:00	Home				Unser
2666	JK			Home				Tun H & Cosmic
2667	04/03	16:17	17:04	Home				Cosmos
2668	04/03	17:22	17:39	Carbon hole	21K			Carbonhole kin 11 spot++
2669	04/03	17:43	18:04	Empty	40K	✓	✓	kin 11 Empty Cell 22 μ A
2670	04/03	18:09	18:40	Helium 3	33.8K	✓	✓	kin 11 Helium 3 22 μ A ← beam off
2671	04/03	19:03	19:48	Helium 3	57.6K	✓	✓	kin 11 Helium 3 22 μ A
2672	04/03	19:52	20:44	Helium 3	95K	✓	✓	kin 11 Helium 3 22 μ A
2673	04/03	20:47	21:58	Helium 3	140K	✓	✓	kin 11 Helium 3 22 μ A
2674	04/03	22:21	22:44	Helium 3	25K	✓	✓	kin 11 Helium 22 μ A
2675	04/03	2:48	03:55	Helium 3	150K	✓	✓	kin 11 Helium 3 22 μ A
2676	04/04	03:56	5:04	Helium 3	153K	✓	✓	kin 11 Helium 3 22 μ A
2677	04/04	05:10	06:42	3H	210K	✓	✓	kin 11 3H 22 μ A ← 3H
2678	04/04	06:42	07:45	3H	97K	✓	✓	kin 11 3H 22 μ A 22 min Run
2679	04/04	9:20	9:59	3H	55K	✓	✓	kin 11 22 μ A (13 min beam).
2680	04/04	11:03	12:16	3H	127K	✓	✓	kin 11 22 μ A
2681	11/4	12:17	14:23	3H	258K	✓	✓	kin 11, 22 μ A.

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2682	4/4	14:24	14:54	3H	68k	✓	✓	kin 11 22 mA (15 min beam)
2683	4/4	15:32		3H				kin 11 22 mA
2684	4/4	16:43	18:38	3H				
2685	4/4	18:38	19:34	3H	150k	✓	✓	KIN 11
2686	4/4	19:36	20:40	Deuterium	181k	✓	✓	kin 11 22 mA
2687	4/4	20:41	21:44	D2	150k	✓	✓	KIN 11 22 mA
2688	4/4	21:44	23:00	D2	156k	✓	✓	KIN 11 22 mA 10 min 11A
2689	4/4	23:03	23:13	3He	15k	X	X	beam trip end quickly
2690	4/5	03:07	04:25	3He	162k	✓	✓	kin 11 22 mA
2691	4/5	04:26	05:47	3He	150k	—	—	kin 11 22 mA
2692	4/5	05:48	07:11	3He	120k	✓	✓	kin 11 22 mA (Last 15 min)
2693								
2694	4/5	11:20	13:14	3He	220k	✓	✓	kin 11
2695	4/5	13:27	13:28	3H	3.7k	—	—	kin 11 22.5 μA (at least no beam)
2696	4/5	14:30	14:49	3H	42k	—	—	kin 11 22.5 μA
2697	4/5	15:12	15:59	3H	111k			kin 11 22.5 μA
2698	4/5	16:01	17:28	3H	227k	✓	✓	scin 11
2699	4/5	17:36	18:51	D2	169	✓	✓	kin 11.
2700	4/7	19:00	20:09	empty	127k	✓	✓	kin 11
2701	4/17	20:10	20:57	Dummy	190k	✓	✓	kin 11

no stable beam)

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2702	04/05	21:11	21:21	C12 hole	11K	✓	✓	Beam centering
2703	04/05	21:29	22:09	Single foil	100K			optic Data
2704	04/05	22:13	22:50	Optics	109	✓	✓	optic Data.
2705	04/05	22:54	23:58	³ He	81K ¹¹⁸ K	✓	✓	production kin13
2706	04/06	00:15	1:45	³ He	155K	✓	✓	production
2707	04/06	1:46	3:02	³ He	131 K	✓	✓	production
2708	04/06	3:02	4:27	³ He	161K	✓	✓	production
2709	04/06	4:28	4:29 5:29	³ He	109K	✓	✓	production (~50 minutes)
2710	04/06	7:05	8:04	³ He	90K	✓	✓	production; stopped early due to separator
2711	4/6	8:52	10:12	³ He	121K	✓	✓	kin 13, 22.5uA
2712	4/6	10:36	10:38	dumny	22K			BCM calib; stopped 1/2 RF trip
2713	4/6	10:40	10:44	dumny	51K			BCM calib
2714	4/6	10:48	11:02	dumny	176K			BCM calib; separator trip
2715	4/6	11:58	12:51	dumny	651K			Unser calib
2716	4/6	12:52	13:42	dumny	676K			BCM calib; incomplete
2717	4/6	13:44	13:50	dumny	5549			Production; Junk
2718	4/6	14:44	15:52	Home	847K			Unser calib
2719	4/6	16:08	17:27	3H	167K	✓	✓	Kin 13 3H 22uA ^{PS1=PS2=PS3=1}
2720	4/6	17:31	18:58	3H	167K	✓	✓	Kin 13 3H 22uA
2721	4/6	18:59	20:17	3H	163K	✓	✓	Kin 13 3H 22uA

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2722	4/6	20:19	21:45	3H	174K	✓	✓	Kin13 3H 22 μ A
2723	4/6	21:46	23:09	3H	193K	✓	✓	Kin13 3H 22 μ A
2724	4/6	23:14	00:26	D	165K	✓	✓	Kin13 D 22 μ A ← D
2725	4/7	00:30	01:41	D	148K	✓	✓	Kin13 D 22 μ A
2726	4/7	01:43	02:53	D	163K	✓	✓	Kin13 D 22 μ A
2727	4/7	02:56	04:09	D	154K	✓	✓	Kin13 D 22 μ A
2728	4/7	04:13	05:21	3He	97K	✓	✓	Kin13 3He 22 μ A
2729	4/7	05:49	06:25	3He	65K	✓	✓	Kin13 3He 22 μ A
2730	4/7	06:27	07:38	3He	124K	✓	✓	Kin13 3He 22 μ A
2731	4/7	07:42	8:47	3He	118K	✓	✓	Kin13 3He 22 μ A
2732	4/7	8:59	10:40	3He	182K	✓	✓	Kin13 22 μ A (with beam)
2733	4/7	10:41	12:10	3He	147K	✓	✓	Kin13 22 μ A
2734	4/7	12:10	12:57	3He	85K	✓	✓	Kin13 22 μ A
2735	4/7	13:01	14:20	3H	172K	✓	✓	Kin13 22 μ A
2736	4/7	14:22	15:37	3H	171K	✓	✓	Kin13 22 μ A
2737	4/7	15:38	16:44	3H	145K	✓	✓	Kin13 22 μ A
2738	4/7	16:47	18:04	3H	171K	✓	✓	Kin13 22 μ A
2739	4/7	18:07	18:45	3H	86K	✓	✓	Kin13 22 μ A
2740	4/7	18:54	20:16	D	149K	✓	✓	Kin13 22 μ A
2741	4/7	20:19	20:28	D	19K	✓	✓	Kin13 22 μ A

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2742	4/7	20:36	21:37	dummy	299K	✓	✓	Production kin 13 <i>kin 13</i>
2743	4/7	22:02	22:08	carbon Hole	10K	✓	✓	check spot
2744	4/7	22:13	22:42	carbon	207K	✓	✓	Production PS8-1000 kin 15
2745	4/7	22:46	23:17	OPTICS	89K	✓	✓	optics PS8-0
2746	4/7	23:23	00:22	Deuterium	123K	✓	✓	Production kin 15
2747	4/8	00:24	01:32	D	133K	✓	✓	Production kin 15
2748	4/8	01:36	02:30	D	126K	✓	✓	Production kin 15
2749	4/8	02:39	03:55	D	150K	✓	✓	production kin 15.
2750	4/8	03:59	05:12	3H	146K	✓	✓	production kin 15
2751	4/8	05:14	06:29	3H	145K	✓	✓	production kin 15
2752	4/8	06:31	07:43	3H	134K	✓	✓	production kin 15
2753	4/8	7:48	9:08	3He	130K	✓	✓	production kin 15
2754	4/8	9:09	10:31	3He	134K	✓	✓	kin 15 22 mA.
2755	4/8	10:31	11:38	3He	119K	✓	✓	kin 15 22 mA
2756	4/8	11:39	12:33	3He	90K	✓	✓	kin 15 22 mA (end early for BCM cali)
2757	4/8	12:29	13:28	Dummy				BCM calibration.
2758	4/8	13:29	14:52	Dummy	280K	✓	✓	kin 15 22 mA production.
2759	4/8	14:58	16:07	D2	140K	✓	✓	kin 15 22 mA production.
2760	Apr 8th	16:08	17:43	D2	109K	✓	✓	kin 15 product (30 min beam)
2761	Apr 8th	17:15	18:10	D2	91K	✓	✓	kin 15 prod (30 min beam)

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2762	Apr 8 th	18:11	19:22	D ₂	131k	✓	✓	kin 15 prod
2763	Apr 8 th	19:28	21:11	D ₂	165k 165k	✓	✓	kin 15 prod
2764	Apr 8 th	21:14	22:25	³ H	144k	✓	✓	kin 15 prod ³ H
2765	Apr 8 th	22:25	23:29	³ H	140k	✓	✓	kin 15 prod ³ H
2766	Apr 8 th	23:30	00:55	³ H		✓	✓	kin 15 prod ³ H
2767	4/8	00:55	2:21	³ H	165k	✓	✓	kin 15 production
2768	4/9	2:30	4:07	He ³	137k	✓	✓	kin 15 prod (some downtime in middle)
2769	4/9	4:07	5:19	He ³	127k	✓	✓	kin 15 prod
2770	4/9	5:28	6:53	He ³	156k	✓	✓	kin 15 prod
2771	4/9	6:54	8:13	He ³	140k	✓	✓	kin 15 prod
2772	4/9	8:14	8:31	He ³	32k	✓	✓	kin 15 prod 15 minutes beam.
2773	4/9	15:35		C-hole	179k	✓	✓	Camis waiting for beam
2774	4/9	19:53	20:09	C-hole	19k	✓		SPOT++
2775	4/9	20:14	21:14	³ He	101k	✓	✓	kin 15 prod
2776	4/9	21:16	22:21	³ He	112k	✓	✓	kin 15 prod
2777	4/9	22:50	23:22	³ He				kin 15 prod Junk beam trip Run
2778	4/9	23:22	00:34	³ He	122k	✓	✓	kin 15 prod
2779	4/10	00:36	01:42	³ He	91k	✓	✓	kin 15 prod [ended early due to beam trip]
2780	4/10	02:09	02:22	³ He	19k	✓	✓	kin 15
2781	4/10	2:37	03:58	³ H	150k	✓	✓	kin 15

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2782	04/10	04:00	05:11	^3H	138K	✓	✓	Kin 15
2783	04/10	05:15	06:44	^3He	142K	✓	✓	Kin 15
2784	04/10	06:45	8:02	^3He	120K	✓	✓	Kin 15
2785	4/10	11:12	11:26	home				DAQ test.
2786	4/10	12:30	15:30	Home	130K	✓	✓	cosmics
2787	4/10	15:37	15:40	C-hole		✓	✓	carbon hole check
2788	4/10	15:42	16:04	C-hole	640K	✓	✓	carbon hole check
2789	7/10	16:04	16:30	C- hole ^{soil}	640K			carbon soil
2790	4/10	16:44	17:40	^3H	1.4M	✓	✓	positron kms
2791	7/10	17:48	16:10	^3H	98K			
2792	4/10	18:32	19:50	^3H	2.9M			
2793		20:30	20:31		0			Killed
2794								bad
2795								bad
2796	4/10	22:30	23:45	^3H	2.7M	✓	✓	
2797	4/10	23:50	01:07	^3He	1.6M	✓	✓	
2798	4/11	01:08	02:52	^3He	0.6M	✓	✓	bad, spotty beam
2799	4/11	02:57	04:24	^3He	1.5M	✓	✓	
2800	4/11	04:24	05:08	^3He	0.9M	✓	✓	
2801	2/11	05:31	05:55	^3He	0.5M	✓	✓	

Tritium Run List

Run number	Date	Start time	End time	Target	N. of ev	Decoded?	HRS OK?	Purpose/Comments
2802	4/11	06:24	06:28	^3He	14K			Junk
2803	4/11	08:27	10:01	^3He	2.2M	✓	✓	positron kin^5
2804	4/11	10:04	10:43	^3He	1.1M	✓	✓	positron kin^5
2805	4/11	10:47	11:14	D2	1.1M	✓	✓	positron kin^5
2806	4/11	11:26	12:55	D2	2.9M	✓	✓	positron kin^5
2807	4/11	13:00	13:39	Dummy	4.1M	✓	✓	positron kin^5
2808	4/11	13:54	14:26	Empty	8.0M	✓	✓	positron kin^5
2809	4/11	15:41	15:49	C-hole				beam centering
2810	4/11	15:52	16:24	C	231K			kin^5 , $p_{s1}=p_{s2}=p_{s3}=1$, $p_{s8}=1/1000$
2811	4/11	16:31	17:39	^3H	138K	✓	✓	Kin IS production
2812	4/11	17:39	19:03	^3H	157K	✓	✓	
2813	4/11	19:06	20:33	^3H	186K	✓	✓	
2814	4/11	20:38	21:49	^3He	121K	✓	✓	
2815	4/11	21:50	23:02	^3He	126K	✓	✓	
2816	4/11 23:03	23:03	23:36	^3He	62K	✓	✓	stopped due to beam trip
2817	4/11 00:00	00:27	00:52	^3He	4K			Junk
2818	4/12	00:36	01:05	^3He	54K	✓	✓	28 mins beam time, see e-log "subtracted peaks"
2819	4/12	01:08	01:51	Dummy	194K	✓	✓	41 mins beam time (production)
2820	4/12	01:56	03:00	d	130K	✓	✓	production, 59 mins beam time
2821	4/12	03:01	04:00	d	117K	✓	✓	production, 52 mins beam time

