



U.S. DEPARTMENT OF
ENERGY

Office of
Science



StayTreat Wrap Up



OPS 2015 StayTreat

12GeV Operations: Future

- Complete the Summer 2015 shutdown tasks.
- Operate RF systems 24/7 for two weeks prior beam operations.
 - Optimize C100 LLRF to achieve design gradients (or beyond).
 - Collect data on C20 trip rates, used to optimize gradient distribution with minimal trip rate.
 - Decrease the gap between E_{maxOPS} and GMES for all cavity types.

Fall2015 ($E_{\text{pass}} = 2.2 \text{ GeV}$):

2015-Oct-26 to 2015-Dec-21

- Emittance/energy spread growth studies.
- SRF performance optimization at full energy.
 - Minimize trip rate
 - Minimize recovery time
 - Maximize gradient
- Detector commissioning at full energy.
- Opportunistic beams for Physics.

Spring2016 ($E_{\text{pass}} = 2.2 \text{ GeV}$):

2016-Jan-28 to 2016-Mar-31

- **First Physics runs with CEBAF at 12 GeV energy: Halls A&D**

Fall 2015

CEBAF Fall 2015 Beam Operations

Index	Name	Task Description	Start	End	Effort	Sep 2015				Oct 2015				Nov 2015				Dec 2015			
						31	07	14	21	28	05	12	19	26	02	09	16	23	30	07	14
7	Physics 12GeV Initial Ops		Mon 2015-10-26 21:00	Sat 2016-10-01 00:00	16.0																
7.1	Physics Period I: E>2GeV/pass		Mon 2015-10-26 21:00	Mon 2015-12-21 06:00	7.0																
7.1.1	Machine restoration	CEBAF 5.5pass E=12GeV...	Mon 2015-10-26 21:00	Mon 2015-11-02 20:00	1.0																
7.1.2	12GeV optics/procedure finaliz...	CEBAF 5.5pass E=12GeV...	Mon 2015-11-02 20:00	Wed 2015-11-25 06:00	3.2																
7.1.3	Thanksgiving Break		Wed 2015-11-25 06:00	Tue 2015-12-01 16:00	0.0																
7.1.4	12GeV optics/procedure finaliz...	CEBAF 5.5pass E=12GeV...	Tue 2015-12-01 16:00	Mon 2015-12-21 06:00	2.8																
10	Cryogenic Tasks		Mon 2013-09-30 00:00	Mon 2015-12-21 06:00	1.0																
10.23	Cryo Restoration: CHL1, CHL2 on...		Mon 2015-09-21 21:00	Mon 2015-10-12 21:00	0.0																
10.24	CHL1->SC1->South Linac, CHL2->S..		Mon 2015-10-12 21:00	Mon 2015-12-21 06:00	0.0																
11	SRF related activities		Wed 2013-08-28 19:00	Mon 2015-10-26 21:00	2.0																
11.12	C20 RF Trip Data Accumulation	24/7 operations	Mon 2015-10-12 21:00	Mon 2015-10-26 21:00	2.0																
13	Safety Systems Group Tasks		Fri 2013-09-06 16:00	Sat 2015-10-03 00:00	2.7																
13.3	PSS Certification 2015 Summer		Mon 2015-09-21 06:00	Sat 2015-10-03 00:00	2.7																
13.3.1	PSS pre-checks		Mon 2015-09-21 16:00	Thu 2015-09-24 00:00	0.6																
13.3.2	PSS Static Certification		Thu 2015-09-24 16:00	Mon 2015-09-28 00:00	1.0																
13.3.3	PSS Functional Certification		Mon 2015-09-28 16:00	Fri 2015-10-02 00:00	1.0																
13.3.4	PSS Functional Certification F..		Fri 2015-10-02 16:00	Sat 2015-10-03 00:00	0.2																

All effort and duration values are in weeks. 24/7 scenario

StayTreat Statistics

- Three days
- 12 Sessions
- 56 Presentations
- 46 Presenters
 - Presentation load was well distributed
- ~30-50 participants
- ~240 donuts consumed
 - Thanks to Matt and Paul!
 - Thanks to Brian for ice maintenance

StayTreat Survey

- SurveyMonkey survey will be created over the next few days. Please take the time to fill it out.
 - Look for an email from me next week.
- Important to assess StayTreat for future improvement.
 - “Without data you're just another person with opinion”
- Sessions Chairs: We will meet next week to discuss the report writing.

Thanks

- Participants: discussion was focused and interactions civil (for the most part).
- Presenters: Talks were on target, initiated healthy discussion.
- Chairs: Sessions coherent, moderation at the right level.
- Management: Funding for room and refreshments

Special Thanks

- Erin Clifton
 - Indico site setup
- Crystal
 - Indico maintenance
 - Care and feeding of the participants