Documentation Theme Summary

PIT Document Team

Long Range PIT Team Goals

- Investigate, understand, and improve long term SRF linac performance
  - Quantify/Summarize performance as built
  - Suggest and implement measurement plans to quantify performance changes
  - Work to understand any changes observed
  - Suggest improvements in operations processes and/or hardware and implement
- Data Management/Understand better "accelerating system wide" problems

Initial Goals of Effort

- Create common repository document summarizing RF/SRF performance of all cavities IN THE INJECTOR and LINACS
  - Agree on contents (feedback from others)
  - Agree on structure
  - Populate structure
- Provide an intelligent update (data management) procedure
  - As cavities swapped, update information
- Regular QA on final document

Several Meetings

- First Meeting
  - Initial vision surrounding "Summary Document" (spread-sheet) discussed
  - Vision deemed not modern and possibly difficult to maintain; especially if a "history" capability updating is required
  - Invitations extended to a broader group to explore Data base solutions

- Second Meeting
  - Brief Data base presentation.
  - Strongly discouraged from any ideas about reproducing CED
  - Data management problem emphasized
  - Discussed several possible future courses, none of which were obviously attractive
- Recent discussion
  - centerred on the idea of documenting the the 12 GeV project generally

Present "Vision"

- If we would like to write a PRSTAB paper of the 12 GeV performance need
  - Main parameters data for every cavity and summaries (Q0, QL, Emax, Emax(ops), …
  - Descriptions of ancilliary equipment (RF sources, couplers and probes, LLRF, cryogenic systems, …
  - Summary data on these items for publication
  - Reliability Descriptions (main phenomena of interest) and data
  - Can help get "over the hump" for Task 1

Task 2

- – Regular Report Every 2 months
- Need to come to a common vision within team
- Need to socialize solution to rest of PIT team members
  - – 7-10 Task items on a Gant Chart
  - – Specify some deliverables
  - – Plan for a year to two
- Restart regular meetings

Draft Planning Document

Months

	1	2	3	4	5	6	7	8	9	10	11	12	13	14

Initiate *

Contents ▭ (month 1)

Present * (month 2)

Structure ▭ (month 2–3)

Present * (month 3)

Populate ▭ (month 3–13)

Book1 ▭ (month 3–7)

Book2 ▭ (month 3–11)

Book3 ▭ (month 5–9)

Book4 ▭ (month 3–11)

… ▭ (month 5–13)

QA ▭ (month 11–14)