TSET Installation Meeting Minutes (10/7/99)

Subject: Presentation of a logistics model of the flow of material from the gate to installation site

Attendees: Jon Ives, Javier Sevilla, Tom Markiewicz, Mori Munro, Carl Rago, Dave Schultz, Karen Fant, Leif Erikson, Zane Wilson, Clay Corvin

Zane and Carl presented the following slides:

Kit Installation Work Flow Diagram

- **Kit Assembly Building (KAB):** The KAB is used to coordinate installation kits. The building is large and will be the only kit assembly building. A kit is what ever is need to perform the installation of a system ex. A magnet kit, a klystron kit. KAB will 1. Support installation staff 2. Pass through and installation track 3. Handle errors in process 4. Time phase if needed

- **Kit Dispatch Dock (KDD):** The KDD is the location from which all kits are dispatch to the areas which need them via a transportation system.

- **On Site Receiving:** This is the initial entry point for all materials from manufacturers.

- **Systems Facilities:** There are 2 types of systems facilities: a general facility (stores) and major systems (klystrons, magnets, etc.). Each facility serves 3 functions: 1. System Assembly: prepared or mate kits for installation 2. Testing 3. Storage. 4. Responsible for all kit generation.

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• To work the problem start with the end (deployment) first.
  – What is the required rate of action? In this case the rate of installation of the kit.
    • Example: The rate at which the klystron kits need (want?) to be installed.
    • 9 concurrent actions taking place.
    • Sector/day = 72 klystrons/day
    • Installation will drive manufacturing.

• Assumptions or environmental needs for Kit installation

• What is needed to install a system (ex. Klystron)? What is in the Kit?
  – 2 klystrons
  – 1 modulator
  – 1 LLRF system
  – 1 charging supply

Comments and suggestions about the presentation:
Assumption is that no manufacturing takes place on site.
Tracking begins at receiving.

It was suggested that it would be useful to show how the quality assurance requirements would overlay onto the model.
It was also suggested that other models should be explored, specifically ones that don’t involve “kitting”.
Several test cases should be reviewed to show the strengths and weaknesses of the model.
Some case suggestions were the klystron/modulator assembly, the magnet system, the case where an assembly is delivered fully ready to install and the case when a large quantity of an item are ready to install but there is a significant problem with the item.

We discussed the need to involve “professional installer”, either from industry or from other laboratory sites. Once we develop our own needs further we will begin making outside contact.