proposed Traveler Updates

# Travelers by work centers

1. Travelers by Work Center – travelers will be broken down by work centers. Ex. An inspection traveler which previously contained visual, CMM, leak test and heat treatment, will now become three travelers: a CMM/Metrology Traveler, a Leak Test Traveler, and a Heat Treatment Traveler. This will allow for:
   1. Better traceability of not only individual parts but also of the assembly and rework processes.
   2. Clearly identifiable NCR connection to areas of concern in vendor quality and discovery of non-conformance.
   3. Easier administrative control of work center area travelers and NCRs.
   4. Efficient data entry and accurate date entry.
   5. Data completeness can be identified by work center, therefore responsibilities are more clearly defined.

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| PROPOSED WORKCENTER BREAKDOWN |
| CMM/METROLOGY |
| INVENTORY |
| SPECIALTY FABRICATION |
| RFIN (RF INSPECTION & TUNING) |
| HEAT TREATMENT |
| CHEMISTRY |
| CLEAN ROOM ASSY (CAV & CST) |
| CM ASSY (Includes component leak check) |
| VTA (Includes VTA COOL) |
| CMTF (Includes VTA COOL) |
| CEBAF |
| Other |

Work Centers can be customized if Project requires and SRF Operations agree.

1. If Part is sent out for “rework” or “plating”, issued from the inventory system, then that ends the current inspection traveler and a new inspection traveler shall be in place for the continuance of the inspection process.
   1. Better part traceability (issued and received by Inventory)
   2. Travelers are not left open (data completeness)
   3. Better interface with the Inventory system
   4. Accurate attachment of NCRs
2. For Parts being received by PRIMeS (inventory), which require traceability and/or supply vendor documentation, will automatically have a RECV traveler provided by the Pansophy Team. The vendor documentation, if received in paper format will be scanned and attached to the RECV traveler by inventory control. If vendor documentation is received in electronic format by the SOTR, the documentation shall be forwarded to the inventory control personnel ([pansophy@jlab.org](mailto:pansophy@jlab.org)) so that it may be attached to the RECV traveler.
3. Standardized Traveler Word Templates will be created for the INSP work centers for use by Authors/SOTRs.

# traveler / primEs interface

1. ? Create a new database table which will contain information related to a part’s status and location which can be accessed by both the Traveler and Inventory systems.
2. ? Upgrade current parts table, which currently holds SNs, to include better controls of RAM, Inspection Status, Location, ASSY status, etc. (More complete requirements TBD)
3. Current database table for part serial numbers is located in the TRAVELER database (TRAVELER\_CM\_CAV). Data is entered both manually by Pansophy personnel and automatically via PRIMeS receipt of parts.

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| **COLUMN NAME** | **DESCRIPTION** | **UPDATE** |
| ID\_NAME\* | The serial number of the part being defined |  |
| ID\_RAM | During disassembly, this flags the part as being radioactive material. Causes a “pop up” to appear in all subsequent travelers (INSP, ASSY) |  |
| ID\_TYPE\* | The project + acronym + SN definition of the part. This is used as the filter for dropdown menus |  |
| ID\_USED | This flag has been used to designate a part as having been inspected. Afterwards the part will appear in ASSY traveler dropdown menus | This could be used to designate use in an ASSY. |
| PART\_NAME\* | Drawing number |  |
| PART\_NUMBER\* | Description of part |  |
|  |  |  |
| NCRs | Multiple? Closed/Open? Disposition? |  |
| Status |  |  |
| Location |  |  |
| Assembly SN |  |  |
| Assembly Type |  |  |

\*Written by PRIMeS upon receipt of Part.

# Process flow of parts

New Functionality Ideas

1. Create a Traveler, like STP-CAV-PROC, that can trace out the process flow of each part and link to independent INSP travelers.
2. Create Status Board, automatically, for parts to display the current process flow of parts and their status.