

Please Sign In.

LIFE BEFORE THE COMPUTER

- * Memory was something that you lost with age
- * An application was for employment
- * A program was a TV show
- * A cursor used profanity
 - * A keyboard was a piano
 - * A web was a spider's home
 - * A virus was the flu
 - * A CD was a bank account
- * A hard drive was a long trip on the road
- * A mouse pad was where a mouse lived
- * And if you had a 3 1/2 inch floppy
....you just hoped nobody found out



Docushare Directory of Training Slides and Referenced Materials:

[SRF Institute >> 01 – SRF Projects >> 06 – For Reference, Additional Template and Processes](#)

Training Slides:

[00 Pansophy Training: Beginning Authorship \(Feb 2015\)](#)

Pansophy Training

<http://fun.swebee.com>

Delete

**The Original
Computer!!!**

Print

Overview
Data In
Data Out
Traveler Authorship

February 2015
Valerie Bookwalter

Pansophy Timeline



Beginnings

- IIS web server
- Windows CF server
- Ingres Database

Transition

- Oracle
- Matlab Plot

Additions

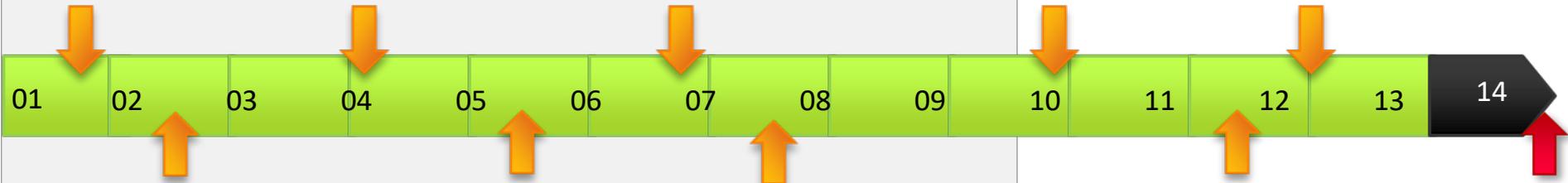
- Sample tracking System (SamTraxs)
- QA (NCRs/D3s)
- RAM & SN tracking
- Linux ColdFusion server

Generation 2

- Pansophy Released
- Projects converted
- VM servers
- Continue CF and Oracle upgrades

Data Mining Project

- Grids: sortable, filterable, exportable queries
- Data binding – speed
- Project, Manager & Team level reports
- QMS tracking Reports



Growth

- Travelers
- Logbooks
- Calibration
- Niobium tracking

Growth

- CLOBs
- Reports / Queries
- Environment Data / LabView
- Export (Excel/PDF)
- Drilldown Genealogy Reports
- CFC's / UDQ CF upgrades

Database Restructured

Complete rework of database schemas to account for growth, simplification of queries, and speed in access

Growth

- Weekly emailed reports
- New Pansophy tags
- Name & SN standardization
- PRIMes / Inventory

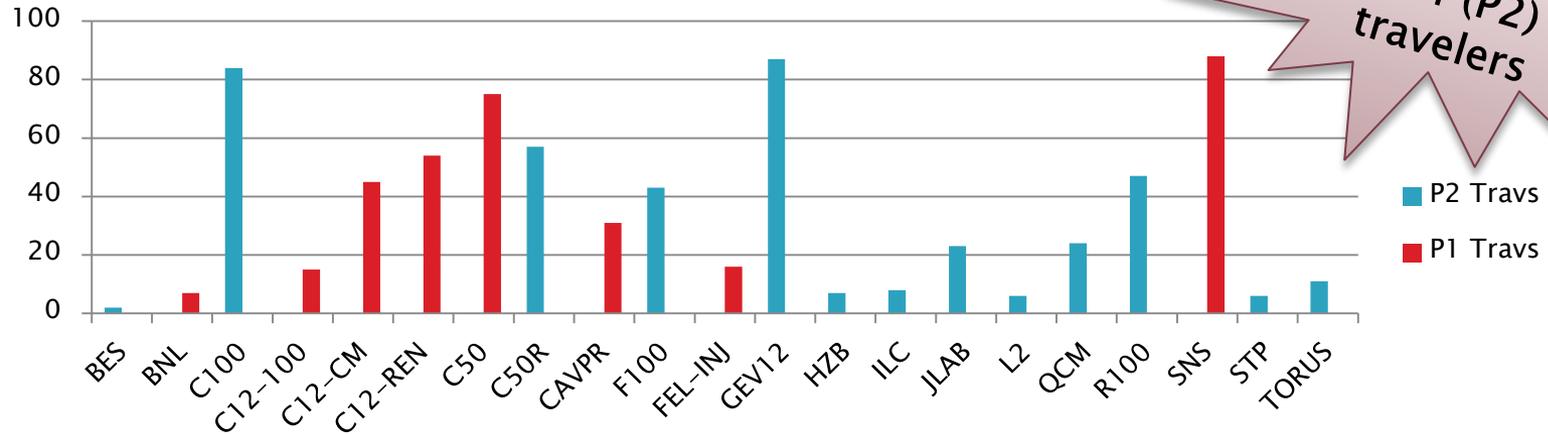
Future:
To the next project and beyond ...

P1 Era – First generation style travelers

P2 The New Era – Second generation style travelers

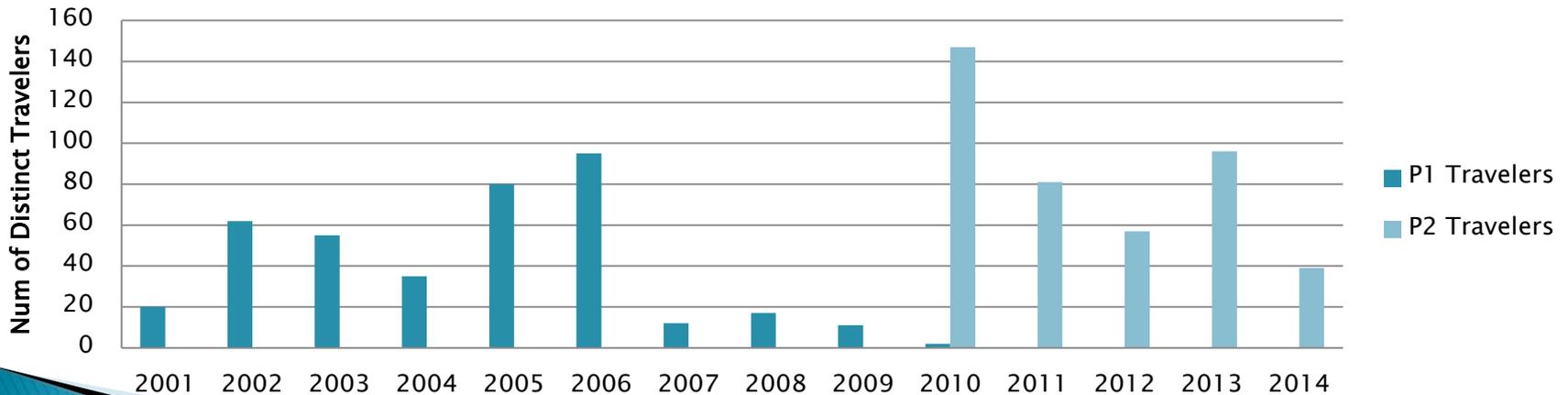
Traveler Statistics

Travelers Written by Project



609 (P1)
594 (P2)
travelers

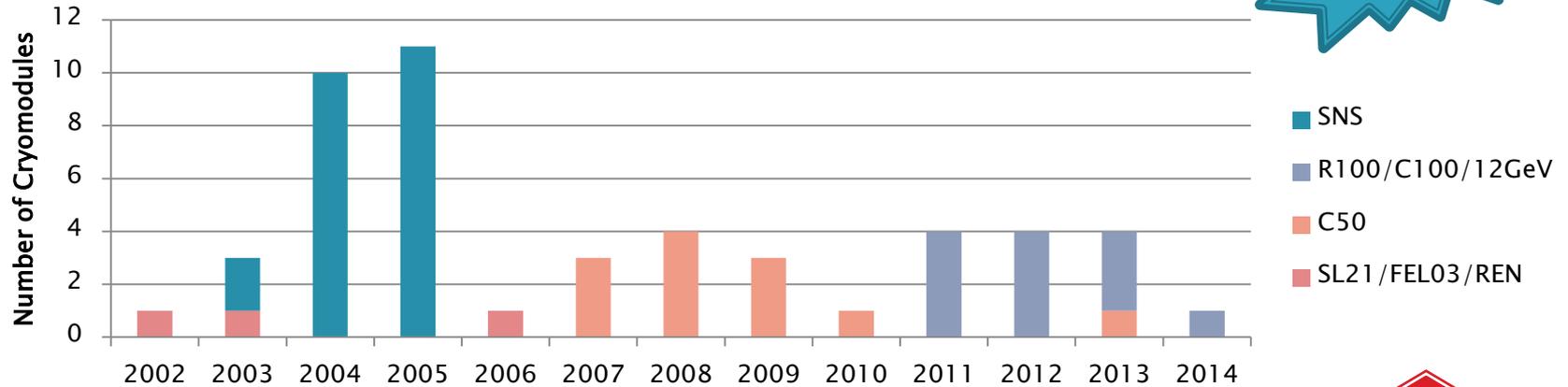
Travelers Released by Years



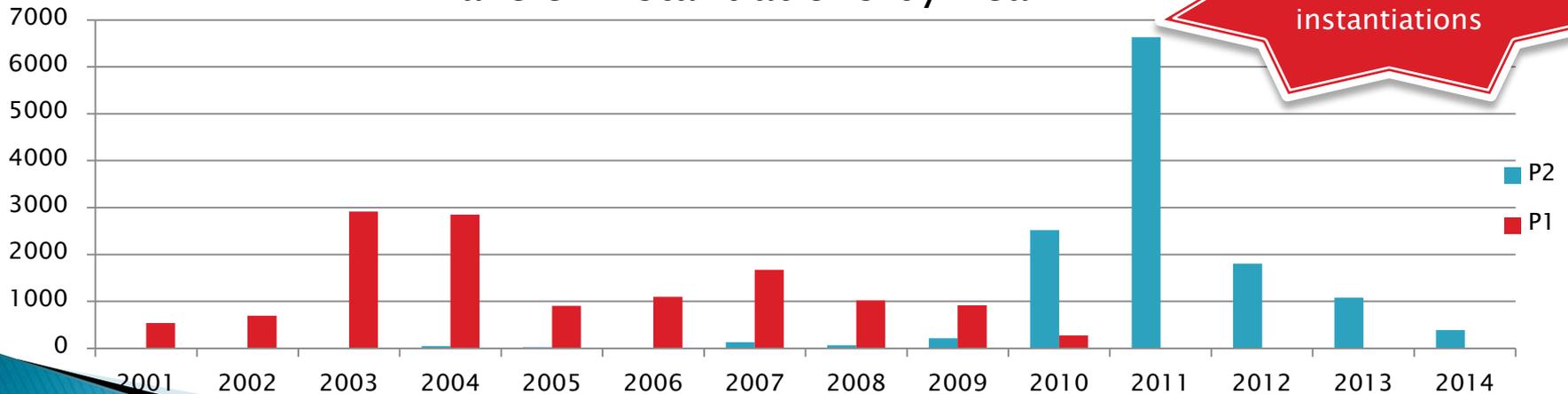
Traveler Instantiations Statistics

JLAB Cryomodule Production 2002-2013
supported by Pansophy

50
CM's



Traveler Instantiations by Year



Approx.
25,000
instantiations

Where to Start?

USER ACTION

- Open the Firefox browser.
- In the URL type
pansophy

File Edit View History Bookmarks Tools Help

Pansophy

https://pansophy.jlab.org/

Personal Google Pansophy2012 PansophyIt PansophyDev SRF Open Projs SRFLOG MIS-WEB-PAGE

Pansophy
A System of Universal Knowledge

MAIN MENU TRAVELERS MENU -> SRF 12 GeV W.F.O. CLOSED PRJ

Pansophy

Welcome to Pansophy

LATEST TEST RESULTS

1E+11

• Baseline	T = 2 K
• After 120 C, 24 h bake	

Pansophy is a database driven, web-based system

USER ACTION

- LOG IN

MAIN MENU

USER ACTION:
Selecting from the main menu
will change the sub-menus

The screenshot shows the Pansophy website interface. At the top left is the Pansophy logo with the tagline "A System of Universal Knowledge". Below it is a navigation bar with "MAIN MENU" (circled in red), "TRAVELERS MENU ->", "SRF", "12 GeV", "W.F.O.", and "CLOSED PRJ" (circled in red). A red arrow points from the text box above to the "MAIN MENU" link. Another red arrow points from the text box above to the "SRF" link. Below the navigation bar is a "Pansophy" logo. The main content area has a grey header "Welcome to Pansophy". On the left is a vertical menu with "MAIN MENU" circled in red and other items: TRAVELERS, DATAMINE, LOGBOOKS, DOCUSHARE, PRIMEs, FACILITIES, ADMIN, SAMTRAXS, HELP. Below the menu is a section titled "PANSOPHY?" with a description: "Database driven, system of applications for control, and distribution in scientific environments. Using Travelers, staff members can define processes, record data and store this process data for future use via the Internet (or lab intranet). A Traveler is a document used to define and control a process, and collects and stores data for future use." In the center is a "LATEST TEST RESULTS" section with a graph. The graph plots σ^0 (log scale from 1E+09 to 1E+11) against E_{beam} [MV/m] (linear scale from 0 to 50). It shows three data series: Baseline (blue circles), After 120 C, 24 h bake (red squares), and T = 2 K (black diamonds). The T = 2 K series is the highest, followed by After 120 C, 24 h bake, and Baseline. All series show a slight downward trend as E_{beam} increases, with a sharp drop-off after 35 MV/m. Below the graph is a link: "Click the thumbnail for a full-size PDF". On the right is a "NEWS" section with a 3D "NEWS" graphic. It contains two news items: "09-Dec-2013 New VTRF Reports" (with subtext "VTRF Reports have been added for C50R, F100 and R100 projects.") and "04-Nov-2013 DocuShare Menu has been". At the top right of the page is a notification box: "you have been authenticated" with links "who am i" and "click here to logout".

HELP MENU

Links to:
User Guides / Help System
Training Slides
**Reference Materials

MAIN MENU **HELP MENU ->**

USER GUIDES

[Pansophy Help](#) - help with Travelers, PRIMEs, SamTrax, Traveler Writing and Docushare
[Word Templates](#) - Setup MS Word 2010 Traveler/Procedure Templates
[Reports Cheatsheet](#) - Links to Pansophy DataMining Reports' Menu (links)
[C50 Drilldown](#) Report descriptions and usage

HELP

TRAINING SLIDES

[Advance Authorship / Pansophy Training Jan 2015](#)
[ID to SN Training](#)
[NCR/D3 Training](#)
[PRIMEs Training \(SRF Inventory\)](#)

REFERENCES

[Master Traveler/Procedure Acronyms List](#)
[Serial Number Acronym List](#)
[Grade Reserved Words](#)

Pansophy Descriptions

- **PANSOPHY** is a database driven web-based group of systems used to define and control a process, collect and organize data, and provide inventory information and control.

TRAVELERS MENU

Pansophy
A System of Universal Knowledge

you have been authenticated
who am i [click here to logout](#)

MAIN MENU **TRAVELERS MENU ->** **SRF** 12 GeV W.F.O. CLOSED PRJ

TRAVELERS

C50R
Traveler Area: Edit / View / Print

- C50R-CAV-DEGR-R1 -- C50 Cavity Degrease
- C50R-CAV-FAB-ENDD-R1 -- C50R Cavity End Dish Fabrication Traveler
- C50R-CAV-FLAP-R1 -- C50R Cavity flange Final lapping traveler
- C50R-CAV-HEP-R1 -- C50R Chemistry HEP
- C50R-CAV-HPR1-R1 -- C50R First High Pressure Rinse
- C50R-CAV-HPR2-R1 -- C50R Second High Pressure Rinse
- C50R-CAV-ILAP-R1 -- C50R Cavity flange Initial lapping traveler
- C50R-CAV-LAP-DGLG-R1 -- C50R Dog Leg flange Lapping traveler
- C50R-CAV-LAP-ENDD-R1 -- C50R End Dish flange lapping traveler
- C50R-CAV-LAP-FPFT-R1 -- C50R Field probe flange lapping traveler
- C50R-CAV-LAP-HOME-R1 -- C50R Elbow flange lapping traveler
- C50R-CAV-LAP-INAD-R2 -- C50R Inner Adapter flange lapping traveler
- C50R-CAV-LAP-LOAD-R1 -- C50R Cryomodule load flange lapping traveler
- C50R-CAV-LAP-WAVE-R1 -- C50R Wave Guide Extension flange lapping traveler
- C50R-CAV-LAP-WIN-R1 -- C50R Arm Window Assembly flange lapping traveler
- C50R-CAV-LAP-WIN-R2 -- C50R Arm Window flange lapping traveler
- C50R-CAV-LAP-TUN-R1 -- C50R Cavity RF Tuning Measurements
- C50R-CAV-LAP-COOL-R1 -- C50R Cavity VTA Cooldown
- C50R-CAV-LAP-ASSEM-R1 -- C50R Cryomodule ASSEMBLY TRAVELER
- C50R-CAV-LAP-DISAS-R1 -- C50R Cryomodule Disassembly Traveler

Select All L1: Select All L2: Select All L3: Select All

From the "TRAVELERS MENU"
select Project
Then listing of Travelers is displayed
Filtering available

DATAMINE MENU

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you have been authenticated [who am i](#) [click here to logout](#)

[MAIN MENU](#) [DATAMINE MENU ->](#) [QUERIES](#) [REPORTS](#) [SRF REPORTS](#) [12 GeV REPORTS](#) [C50 DRILLDOWN](#) [CLOSED PRJ](#)

DATAMINE

WELCOME TO THE QUERIES' AREA

Please select an option from the menu above.

**Don't just collect data:
use it.**

NEWS

This is where we will put news and noteworthy items. Also we will put new items and FYIs.

10-July-2013

BRAND NEW QUERY SYSTEM IS BEING ROLLED OUT THIS MONTH!

TRAVELERs (OP/CL)
TRAVELERs BY PROJECT OP/CL
TRAVELERs BY WORKCENTER
TRAVELER WEEKLY REPORT
NCRs (OP/CL)
NCRs BY PROJECT (Op/Cl)
NCRs BY WORKCENTERS
NCR CLASSIFICATION (TRAVELER)
NCR CLASSIFICATION (PROJECT)
D3s (OP/CL)
D3s BY PROJECT/CL
D3s BY WORKCENTERS
D3 CLASSIFICATION (TRAVELER)
D3 CLASSIFICATION (PROJECT)
TRAVELER & PROCEDURE QM

From the "DATAMINE MENU"
Roll-over sub-menu headings to see
drop-down listing of available
Reports/Queries



Data In

Travelers

Data must be “put into” the system in order for data to be “retrieved from” the system

Data In (Traveler Usage)

- ❑ Instantiating Traveler: starting a new copy
- ❑ Entering Data: submitting to database
- ❑ Securing Data: Closing a traveler
- ❑ Uploading File(s)
- ❑ Hold Points

Traveler Example – Page 0 (C50R)

TRAVELERS

Traveler Area: [Edit](#) / [View](#) Search For: **C50R-** (i.e. CAV-INSP)

C50R

C50R-CAV-DEGR-R1 -- C50 Cavity Degrease
 C50R-CAV-FAB-ENDD-R1 -- C50R Cavity End Dish Fabrication Traveler
 C50R-CAV-FLAP-R1 -- C50R Cavity flange Final lapping traveler

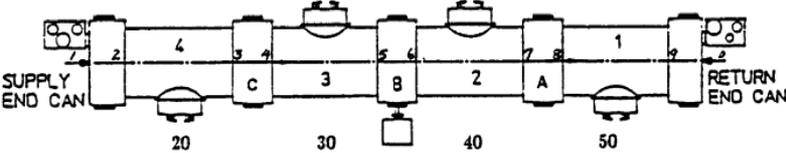
Select Traveler Page 0 NEXT LAST NEW

SerialNum: 0	Traveler ID: C50R-CM-ASSY	Rev: R1	Page:0	Traveler Seq Number: 0
Traveler Title	C50R CRYOMODULE ASSEMBLY TRAVELER			
Traveler Abstract	This traveler contains the necessary information to successfully assemble the C50R Cryomodule.			
Traveler ID	C50R-CM-ASSY			
Traveler Revision	R1			
Traveler Author	John Fischer			
Traveler Date	5-7-2013			
NCR Emails	josephm, reilly, fischer, worland			
Approval Names	John Fischer	Ken Worland	Tony Reilly	Frank Humphry
Approval Signatures				
Approval Dates	22-May-2013	22-may-2013	22-May-2013	22-May-2013
Approval Title	Author	Reviewer	Project Manager	Facility Rep.
References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents.			
11100-0016 CM Top Assy	11126-0001 CU Top Assy	11131-0081 REC Top Assy	11131-0081 SEC Top Assy	11171-0001 Bridging Area sh2
11108S3704-Alignment Procedure	11141S0029-Rev A Small Leak Check	11141S0033-Rev A Large Leak Check	11171-0001 Bridging Area sh1	11171-0001 Bridging Area sh3
11171-0001 Bridging Area sh4	CP-C100-CM-CAL-JTAT-JT Set Procedure	CryomoduleEndCanPressureTesting OSP	CryomodulePressureTest	CryomodulePressureTest
Revision Note				
R1	Initial release of this Traveler.			

Select Traveler Page 0 NEXT LAST

- Header Page for Traveler
- Contains links to "referenced" materials

Traveler Example – Page 1 (C50R)

SerialNum: 0		Traveler ID: C50R-CM-ASSY		Rev: R1		Page:1		Traveler Seq Number: 0	
Step No.	Instructions	Data Input							
1	Verify all Cryounit travelers are complete.	Technician1 -0- Date1 <input type="text"/> NOW (ex format 18-Jun-2005 16:30) Comment1							
2	Record the serial numbers for Cavities and Cryounits in their respective positions.  <p>**NOTE: Cryounits 20 & 50 should have Liquid Level Probe installed.**</p>	Cavity1 -0- Cavity2 -0- Cavity3 -0- Cavity4 -0- Cavity5 -0- Cavity6 -0- Cavity7 -0- Cavity8 -0- Cryounit20 -0- Cryounit30 -0- Cryounit40 -0- Cryounit50 -0- Technician2 -0- Date2 <input type="text"/> NOW (ex format 18-Jun-2005 16:30) Comment2							
3	Record serial numbers for End Cans	RECSN -0- SECSN -0- Technician3 -0- Date3 <input type="text"/> (ex format 18-Jun-2005 16:30) Comment3							

Seek help when needed
(pansophy@jlab.org)

Instantiating Traveler

1. Select Traveler From list

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MAIN MENU TRAVELERS MENU -> SRF 12 GeV W.F.O. CLOSED PRJ

TRAVELERS

C100
Traveler Area: Edit / View / Print

2. Info page select NEW

Pansophy
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MAIN MENU TRAVELERS MENU -> SRF 12 GeV W.F.O. CLOSED PRJ

TRAVELERS
(Le. CAV-INSP)

Traveler Area: Search For: C100- (Le. CAV-INSP)

Traveler ID: C100
Traveler Revision: R4
Traveler Author: M. Stirbet
Traveler Date: 15-Nov-2011
NCR Emails: stirbet, kdavis, haipeng, aburril, hogan
Approval Names: M. Stirbet, K. Reece, J. Hogan, K. Davis
Approval Dates: 15-Nov-2011, 16-Nov-2011, 17-Nov-2011, 18-Nov-2011
Approval Signatures: [Signatures]
Approval Title: Author, Reviewer, Project Manager, Facility Manager

References: [References]

Revision Note:
R1: Initial release of this Traveler.
R2: Second traveler release with changes regarding QL measurements for HOM couplers, typical values for decay measurements and administrative limits to be applied for VTA RF testing of 7 cells L1 cavities.
R3: Third traveler release with changes regarding insertion/deletion of VTA operator names, select cavity vacuum units, cable calibration comments and replaced NCR with D3. Post processing radiation at 20 MV/m, FE onset initial and post processing
R4: Fourth traveler release with changes regarding: updated NCR email list, replaced TopPlate ID with VTA_TSSM, updated VTRF procedure and new Excel template with macros for VTA data processing, HOM test procedure, Excel template and Excel macros for HOM measurements, insertion/deletion of VTA and HOM survey operator names, insert acceptance range of Lorentz coefficient, reorganized cavity performance data entry, simplified uploading cavity qualification graphs.

3. Enter data & instantiate

INSTRUCT

1. Input C100 Cavity ID, Instructions, and special handling (chemistry or bake) or other normal conditions associated with this cavity before proceeding.

2. Record if cavity has Helium vessel.

3. Record if cavity is mechanically constrained (i.e. tuner attached, etc).

4. Note: This cavity has HOM coupler protection installed and connected to the test cell. Indicate how many.

5. Record VTA file name, without special characters. (Valid example: C100-1234567890)

6. Record VTA Date, Dewar No, Top Plate ID and Operator(s).

7. Record cavity vacuum status, if so instrumented.

8. Record Dewar Helium bath liquid level, temperature and saturation pressure. Do not continue unless Dewar liquid level is above 2.07K. Start cavity testing at (29 +/- 0.1) Torr which will drop to about 2.07K.

9. Zero power meters then calibrate cables at 0.1 W and 10 W. Specify by: [Fields]

INSTAT

4. Traveler receives a Sequence Number

C100

Traveler ID: C100-CAV-INSP-WG00

Traveler Seq Number: 117

Step No. 1

Instructions: Note: Follow the requirements of 2005-03-01 (including wearing gloves) at all times when handling these components. Make sure that the faces of the flanges are protected from handling damage. Note: For this entire traveler, if any of the inspection items in this traveler are not applicable, they should be, please generate either a D3 or an NCR, based on your own judgment.

Step No. 2

Instructions: Enter technician name: Enter date: Enter serial number of waveguide inspected: Inspect shipping container for signs of damage. If the container is damaged in any way, please document the damage in comment field. (Take a picture of the damage and attach file(s).)

Step No. 3

Instructions: Scan and upload all documentation that arrives with the waveguides. These should include plotting certifications, leak check results, cold shock results, and other test results. (Note: If there is no time to scan and upload documents, it is also acceptable to keep paper copies in a file for future scanning and uploading.)

Entering Data

- ▶ Select previously created travel sequence number
- ▶ Continue to add/update data
- ▶ **Submit each page !!**
- ▶ Page control buttons (next, prev)

The screenshot shows a data entry form for a travel sequence. At the top, there are navigation buttons: 'Page 1', 'FIRST', 'PREV', 'NEXT', 'LAST', 'NCR', 'Select NCR', 'D3', 'Select D3', and 'NEW'. A red circle highlights the 'C100' travel sequence number in the 'Select Traveler' dropdown. A blue circle highlights the 'Page 1' button. The main form is divided into three steps:

Step No.	Instructions	Data Input
1	Note: Follow the requirements of 29 CFR 1910.101 (including wearing gloves) at all times when handling these components. Make sure that the faces of the flanges are protected from handling damage. Note: For this entire travel, if any of the inspection items in this travel are not as they should be, please generate either a D3 or an NCR based on the inspector's judgment. Enter technician name: Enter serial number of waveguide being inspected:	InspectorTech GEORGED InspectorDate 23-Mar-2012 11:56 (ex format 18-Jun-2005 16:30) NOW WGDSN F898271/08 VisualExamStart 23-Mar-2012 11:56 (ex format 18-Jun-2005 16:30) NOW
2	Inspect shipping container for signs of damage. If the container is damaged: 1. Describe damage in comment field. 2. Take a picture of the damage and attach file(s).	ContainerTech CARPENTE ContainerDate 01-Oct-2012 09:10 NOW (ex format 18-Jun-2005 16:30) ContainerGoodCondition <input checked="" type="radio"/> Yes <input type="radio"/> No ContainerFiles Attach Files: Attach Files You have attached no files. ContainerComment
3	Scan and upload all documentation that arrives with the waveguides. These should include plating certifications, leak check results, cold shock results, and other test results. (Note: if there is not time to scan and upload documents, it is also acceptable to keep paper copies in a file for future scanning and uploading.)	DocumentTech CARPENTE DocumentDate 01-Oct-2012 09:10 NOW (ex format 18-Jun-2005 16:30) DocumentFile Attach Files: Attach Files You have attached no files. DocumentComment no docs

At the bottom of the form, there is a 'SUBMIT TO DATABASE' button, which is circled in red. Below it are the same navigation buttons as at the top.

Securing Data

- ▶ Until a traveler is CLOSED, all data can be modified and data entry can continue
- ▶ Data is never deleted - history of changes are kept
- ▶ Once a traveler is closed, ALL DATA is locked and no further changes can be made

OuterCondComment
not to be performed as per K. Wilson

OuterCondEnd NOW
(ex format 18-Jun-2005 16:30)

duty poly bag and store in designated RepackageTech -0-
RepackageDate NOW
(ex format 18-Jun-2005 16:30)
RepackageLocation

RepackageFiles Attach Files:
You have attached no files.

Close Traveler? Yes No

Contact: [DansonphTeam](#)

Initial Rmax value for the highest radiation level inside Dewar lid. If Rmax is background up to the administrative limit (27MV/m), insert 1e-3 mR/m for this parameter.
Final Qo at Eacc= (4 +/-0.3)MV/m.
Record performance limitation at 2.07K.
If cavity PerformanceLimitAt2_07K is selected Other, record pertinent information in the Comment box at the right.

PerformanceLimitAt2_07K Quench (non-FE) Other
PerformanceLimitAt2_07K_Other

2.07K, was cavity RF processed (conform specifications in 1487 MHz VTA RF Testing Procedure) to achieve performances over 25 MV/m? Record pertinent information at the right and launch NCR if cavity RF processing was unsuccessful.
RFProcessing Yes No
RFProcessingComment

Final Record Lorentz detuning coefficient (slope of the linear fit frequency vs Eacc2) KLOREN.
Lorentz detuning coefficient specifications:
Low: -4.0
High: -6.0
If option NO is checked, launch NCR.
KLOREN -5.69 (Hz/MVm2)
KLORENMeetsSpec Yes No
KLORENComment

Record post-processing data:
Post-processing Radiation at (20 +/- 0.3) MV/m.
Post-processing FEonset: onset of field emission (FE onset, defined to be the first measured gradient where measured radiation is >= 2 mR/hr). If no field emission is detected up to administrative limit(27MV/m) insert a value of 50 MV/m.
Post-processing Rmax value for the highest radiation level inside Dewar lid. If Rmax is background up to the administrative limit (27MV/m), insert 1e-3 mR/m for this parameter.
PP_RadAt20Mvm (mR/h)
PP_FEonsetMvm (MV/m)
PP_Radmax (mR/h)

Page 3

Uploading Files

NOTE: Spaces and special characters, excluding dashes and underscores, are not allowed in filenames. Also note that using Internet Explorer or Google Chrome on this page will produce unexpected results.

Upload a new file:

Browse... No file selected. Attach File

You have attached no files.

Reset Form Post Entry >>

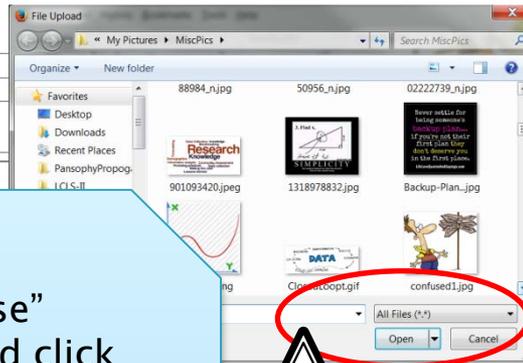
Update Files:

Select the file you would like to replace:

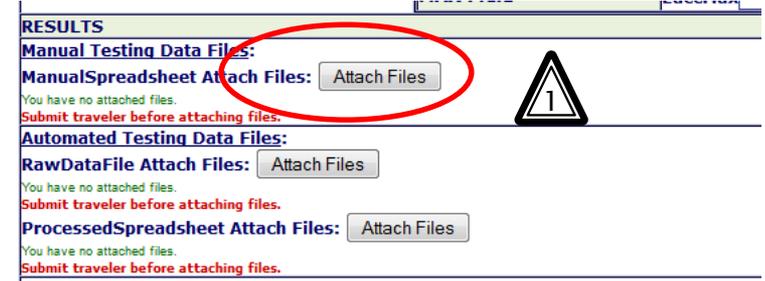
Select the file you are replacing it with:

Browse... No file selected. Replace

Delete Files:



1. Select "Attach Files"
2. Pop-Up; select "Browse"
3. Pop-Up; select file and click "Open"
4. Select "Attach File"
5. Select "Post Entry" OR repeat steps 2-4 to upload multiple files
6. Thumbnails will display for uploaded files



Upload a new file:

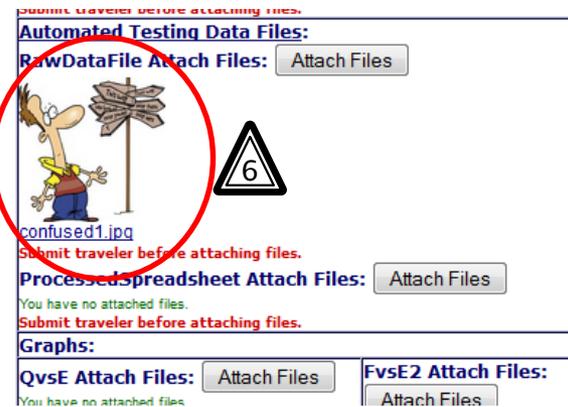
Browse... No file selected. Attach File

confused1.jpg 27650 bytes

Reset Form Post Entry >>

Update Files:

Select the file you would like to replace:



Hold Points (Not signer)

	Head1_Welds_Mu_OK <input type="radio"/> Yes <input type="radio"/> No
	Head2_Body_Mu_OK <input type="radio"/> Yes <input type="radio"/> No
	Head2_Welds_Mu_OK <input type="radio"/> Yes <input type="radio"/> No
	STOP This is a hold point. Supervisor sign-off required to continue. Valid Signers are: cheng,wiseman,hogan

SUBMIT TO DATABASE

NEXT LAST NCR Select NCR D3 Select D3 NEW

Hold Points can only be "cleared" by the designated person(s). If you are not a signer then you will see this type of display

DAKE-RZ -- C100 Cavity Dake-out

Page 6 FIRST PREV NEXT LAST NCR Select NCR D3 Select D3 NEW

Traveler ID: C100-CM-INSP-HELV Rev: R2 Page:6 Traveler Seq Number: 84

STOP There is a hold point in effect. Processing of this traveler can not continue without supervisor approval.

Instructions	Data Inputs
<p>All welds to make sure that:</p> <p>and flush, with no crevices, cracks or protrusions, weld oxidation shall ing specification in drawings. Make notes of any nonconformances.</p> <p>aterial, especially around the welds.</p>	<p>WeldInspector <input type="text" value="-0-"/></p> <p>WeldInspDate <input type="text" value=""/> <input type="button" value="NOW"/> (ex format 18-Jun-2005 16:30)</p> <p>WeldsOk <input type="radio"/> Yes <input type="radio"/> No</p> <p>ColorationOk <input type="radio"/> Yes <input type="radio"/> No</p> <p>WeldsComments <input type="text"/></p> <p>You have attached no files.</p>

This will prevent you from being able to add data to subsequent pages (No SUBMIT button) until the Hold Point is cleared

Hold Points on last page

	fvsEacc2 Attach Files: <input type="button" value="Attach Files"/> You have attached no files.
. HOM power as a ame properly	UploadFiles Attach Files: <input type="button" value="Attach Files"/> You have attached no files.
	 This is a hold point. Supervisor sign-off required to continue. Valid Signers are: adapps
ssue an NCR from	CavityMeetsSpecifications <input type="radio"/> Yes <input type="radio"/> No

DATABASE

NCR D3



If Hold Point is on last page, then the Traveler can not be “closed” until the Hold Point is Cleared

Hold Points (signer)

TVSEACCZ Attach Files:	<input type="button" value="Attach Files"/>
You have attached no files.	
UploadFiles Attach Files:	<input type="button" value="Attach Files"/>
You have attached no files.	
	 Supervisor sign-off required to continue.
CavityMeetsSpecifications	<input type="radio"/> Yes <input type="radio"/> No

Are you sure you wish to clear this hold point?

SUBMIT TO DATABASE

FIRST PREV NCR Select NCR

Contact Us: PansophyTeam | Page Developer: BOOKWALT

A designated “signer” is logged in.

User selects the “STOP” sign

A pop-up box

Select your answer

Hold Point cleared

C100	86_QovsTemp.pdf
	Hold Point has been cleared by: HAIPENG Date:2012-08-16 11:04:00.0
this	CavityMeetsSpecifications <input checked="" type="radio"/> Yes <input type="radio"/> No

NCRs (Non-Conformance Report)

- ▶ A Non-Conformance Report should be issued for any part that does not meet specified requirements.
- ▶ This could be a part received from a vendor which does not meet dimensional specifications OR a part manufactured in-house which does not meet weld requirements.
- ▶ All Projects have an NCR traveler.
- ▶ All Travelers have access to issue an NCR.
- ▶ Multiple NCRs can be issued for a single traveler.

Example NCR pg 1

SerialNum: 0 Traveler ID: C50R-NCR Rev: R8 Page:1 Traveler Seq Number: 0

NCR Traveler (Page 1 : Initiate and Describe)

INITIATE A Non-Conformance Report

The Part
Auto Filled from initiating traveler. If auto-fill does not occur ensure values are entered:
SN 0
SNtype
DrawingNumber unkn
PartDescription unkn

The Traveler
Auto Filled from initiating traveler. If auto-fill does not occur ensure values are entered:
TravelerID
TravelerRevision
TravSeqNumber

The Technician
DescribeStaff BOOKWALT
DescribeDate 10-Feb-2015 09:37
Text format 18-Jun-2005 16:30

Non-Conformance Categories (select all that apply)

<input type="checkbox"/> ShippingDamage <input type="checkbox"/> Dimensional	Surface Form: <input type="checkbox"/> Roughness <input type="checkbox"/> Flatness <input type="checkbox"/> Parallelism	Surface Damage: <input type="checkbox"/> Scratches <input type="checkbox"/> Dings <input type="checkbox"/> Delamination <input type="checkbox"/> Plating	Surface Contamination: <input type="checkbox"/> Stains <input type="checkbox"/> Oxidation <input type="checkbox"/> Residues
RF Components: <input type="checkbox"/> InspectionFailure <input type="checkbox"/> RFTestFailure <input type="checkbox"/> LeakTestFailure	<input type="checkbox"/> CMTFRFPerformance <input type="checkbox"/> VTARFPerformance	Cryomodule: <input type="checkbox"/> Vacuum <input type="checkbox"/> RF <input type="checkbox"/> Instrumentation <input type="checkbox"/> Mechanical	<input type="checkbox"/> OTHER

Problem Comments and Description Files
Problem Description: Thoroughly and carefully describe the discrepancy with the part.
IF "OTHER" is chosen as category in above box, carefully describe the discrepancy including keywords that can be used for searching.
DescribeComment

Notifications
The Engineers listed with

Area 1: defines Part and references to Traveler and Technician

Area 2: defines the Problem(s)

On SUBMIT: engineers are emailed

Example NCR pg 2

SerialNum: 0 Traveler ID: C50R-NCR Rev: R8 Page:2 Traveler Seq Number: 0

NCR Traveler (Page 2 : First Disposition)

Engineer First Response

The Responding Engineer
RespondingEngineer BOOKWALT
RespondingDate 10-Feb-2015 09:38 NOW
(ex format 18-Jun-2005 16:30)

The Disposition
Disposition: A Disposition must be selected. Then provide details in the comment box below.

Use As Is
 Return To Vendor
 Reject
 Hold/Re-measure
 Hold/Modify
 Proceed to next WorkCenter

Disposition Comments and Description Files
*Provide details in comment box and upload documents needed to further describe the disposition selected above.
If an action is to be taken against the part (Re-measure/Modify), then describe the corrective actions to be taken.*

DispositionComment

Instantiate traveler before attaching files. Submit traveler before attaching files.

Notifications
The appropriate staff will be notified.

*NCR will be automatically closed if no response is received within 30 days.
This NCR should remain open until the problem is resolved.*

Area 1: defines Engineer responding to the problem
Area 2: defines the Disposition
On SUBMIT: technician is emailed; AND if disposition is RTV or Reject then the traveler is automatically closed

Example NCR pg 3

SerialNum: 0 Traveler ID: C50R-NC Rev: R8 Page:3 Traveler Seq Number: 0

NCR Traveler (Page 3 : Modification / Re-measure)

Rework and Review

The Rework Technician
ReworkStaff BOOKWALT
ReworkDate 10-Feb-2015 09:39
(ex format 18-Jun-2005 16:30)

The Verification Technician
VerifyStaff BOOKWALT
VerifyDate 10-Feb-2015 09:39
(ex format 18-Jun-2005 16:30)

Rework Comments and Files
Re-work Description: Thoroughly and carefully describe the actions taken on the part:
ReworkComment

Rework Files
Instantiate traveler before attaching files. Submit traveler before attaching files.

Verification Comments and Files
Verification Description: describe verification and/or observation on the part:
VerifyComment

Verify Files
Instantiate traveler before attaching files. Submit traveler before attaching files.

Notifications

Area 1: defines Technicians making modifications or doing additional work as defined on Page 2 by the Responding Engineer
Area 2: allows for comments about the modifications
On SUBMIT: Responding engineer is emailed

Example NCR pg 4

SerialNum: 0 Traveler ID: C50R-NCR Rev: R8 Page:4 Traveler Seq Number: 0

NCR Traveler (Page 4: Final Disposition)

Engineer Final Response

The Final Engineer
FinalEngineer BOOKWALT ▾
FinalDate 10-Feb-2015 09:40 NOW
(ex format 18-Jun-2005 16:30)

The Final Disposition
Final Disposition: A Disposition must be selected. Then provide details in the comment box below.

Use As Is
 Return To Vendor
 Reject
 Hold/Re-measure
 Hold/Modify
 Proceed to next WorkCenter

Final Disposition Comments and Description Files
Provide details in comment box and upload documents needed to further describe the disposition selected above.
If an action is to be taken against the part (Re-measure/Modify), then describe the corrective actions to be taken.
This traveler will be closed automatically. If additional actions are required for the part then open a new NCR and continue processing.

Instantiate traveler before attaching files. Submit traveler before attaching files.

Area 1: defines Final Engineer responding to the modification/rework
Area 2: Engineer must define the final disposition for the part
On SUBMIT: engineers and technicians are emailed AND traveler is automatically closed

D3s (Detours Deviations Discrepancies)

- ▶ A D3 should be issued for any process that could not be completed as specified in the traveler or supporting documentation.
- ▶ Ex. A HPR had to run longer than specified on the traveler OR a part had to be cleaned a second time.
- ▶ All Projects have a D3 traveler.
- ▶ All Travelers have access to issue a D3.
- ▶ Multiple D3s can be issued for a single traveler.

Example D3

SerialNum: 0 Traveler ID: C50R-D3 Rev: R1 Page:1 Traveler Seq Number: 0		
Step No.	Instructions	Data Input
1	CATEGORIZE: Select from the drop-down menu a classification for this D3.	D3 Classification BCP <input type="text"/> D3OpenedTime <input type="text"/> <input type="button" value="NOW"/> (ex format 18-Jun-2005 16:30) CategorizeTechnician <input type="text"/> -0- <input type="text"/>
2	IDENTIFY: Select or enter the appropriate serial ID.	SerialID <input type="text"/> <i>*All Caps; No spaces or special chars</i>
3	ASSOCIATE: Traveler information should have been automatically entered. Please ensure correct information and add any additional information needed to associate.	TravelerId <input type="text"/> RevNo <input type="text"/> SeqNo <input type="text"/> PageNo <input type="text"/> StepNo <input type="text"/>
4	DESCRIPTION: Enter a full description of the activity or event that caused the generation of this D3. Use the file uploads if needed. D3Description <input type="text"/>	Must submit traveler before attaching files.
5	ACTION: Describe actions or activities taken as a result of this D3. Use the file uploads if needed. D3Actions <input type="text"/>	Must submit traveler before attaching files.

Define the Classification of the D3 and describe in full the part and the problem as well as any mitigations or adjustments made.

Issuing NCRs / D3s

Traveler Input Mode

Select Traveler Page 6

Select NCR Select D3

SerialNum: CRM1207001-1000_001 C100-CM-CRYO-ACTSR1 Pg:6 TRAV_SEQ_NUM: 3

Step No	Instructions	Data Inputs
23	Begin the Integrated Insulating Vacuum Leak Test: Isolate the insulating vacuum from the pumping station after the cool down is complete and the cryomodule is stable in terms of pressure and liquid level. Monitor the insulating vacuum pressure for at least 1 week. Record start time, completion time and the vacuum pressure (in	InsVacLeakTestStartBy <input type="text" value="DRURY"/> InsVacLeakTestStartTime <input type="text" value="20-Jul-2011 09:43"/> <input type="button" value="NOW"/> (ex format 18-Jun-2005 16:30) InsVacLeakTestStartPressure <input type="text" value="3.3000e-7"/> torr InsVacLeakTestCompleteBy <input type="text" value="DRURY"/> InsVacLeakTestStopTime <input type="text" value="01-Aug-2011 08:00"/> <input type="button" value="NOW"/> (ex format 18-Jun-2005 16:30) InsVacLeakTestFinalPressure <input type="text" value="2.1000e-7"/> torr ElapsedTimeInsVacLeakTest <input type="text" value="11"/> days InsVacLeakTestDelta <input type="text" value="1.0000e-7"/>

An NCR/D3 button is located at the top of every page of a Traveler. By selecting this button you “issue an NCR/D3”. You may issue more than one NCR/D3 from button in the traveler.

*“if you torture the data enough,
it will eventually confess!”*

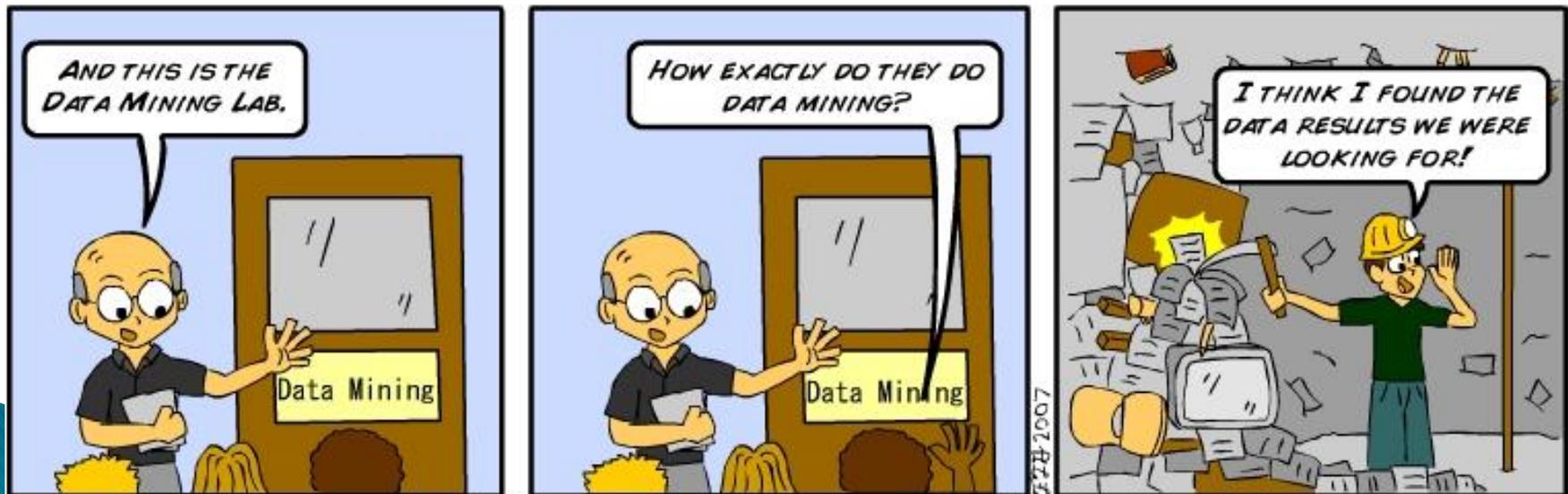


Data Out

Data Mining
Queries / Reports

Data vs. Knowledge

- ▶ Computers contain lots of data, but people need help to turn this data into intelligence.
- ▶ Data Mining can help us to move from data keepers to intelligence gatherers.
- ▶ Information can be converted into knowledge

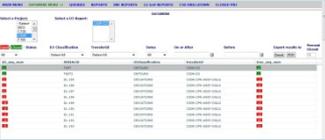
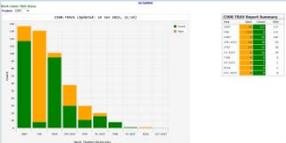
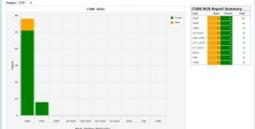
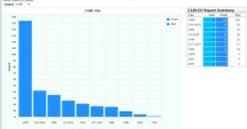
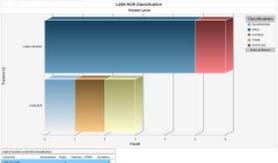
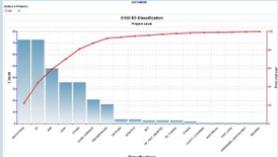


Data Mining Menu (Reports)

The screenshot shows the Pansophy web interface. At the top left is the Pansophy logo with the tagline "A System of Universal Knowledge". At the top right, a notification box says "you have been authenticated" with a "who am i" link and a "click here to logout" button. Below this is a navigation bar with tabs: "MAIN MENU", "DATAMINE MENU ->", "QUERIES", "REPORTS", "SRF REPORTS", "12 GeV REPORTS", "C50 DRILLDOWN", and "CLOSED PRJ". The "REPORTS" tab is selected, and a dropdown menu is open, listing various report types such as "TRAVELERs (OP/CL)", "TRAVELERs BY PROJECT OP/CL", "TRAVELERs BY WORKCENTER", "TRAVELER WEEKLY REPORT", "NCRs (OP/CL)", "NCRs BY PROJECT (Op/Cl)", "NCRs BY WORKCENTERS", "NCR CLASSIFICATION (TRAVELER)", "NCR CLASSIFICATION (PROJECT)", "D3s (OP/CL)", "D3s BY PROJ OP/CL", "D3s BY WORKCENTERS", "D3 CLASSIFICATION (TRAVELER)", "D3 CLASSIFICATION (PROJECT)", and "TRAVELER & PROCEDURE QM". On the left side of the main content area, there is a "Select a Project:" section with a dropdown menu showing options: "-Select-", "BES", "C100", "C50R", and "F100". The main content area on the right is currently empty, with the word "DATAMINE" visible in the top right corner of the content area.

Full Listing with Examples can be found in [*Appendix A*](#)

DATAMINE: REPORTS

TRAVELERS	NCRs	D3s	Description
<p><u>TRAVELERS (OP/CL)</u></p> 	<p><u>NCRs (Op/Cl)</u></p> 	<p><u>D3s (OP/CL)</u></p> 	<p>Open / Closed <i>Status per Traveler</i></p>
<p><u>TRAVELERS BY PROJECT OP/CL</u></p> 	<p><u>NCRs BY PROJECT (Op/Cl)</u></p> 	<p><u>D3s BY PROJ OP/CL</u></p> 	<p>Open / Closed by Project <i>Total open closed for a project</i></p>
<p><u>TRAVELERS BY WORKCENTER</u></p> 	<p><u>NCRs BY WORKCENTERS</u></p> 	<p><u>D3s BY WORKCENTERS</u></p> 	<p>Open / Closed by WorkCenter <i>Total open/closed for a project where travelers are collected together by work centers.</i></p>
<p><u>TRAVELER WEEKLY REPORT</u></p>  <p>SPECIAL REPORT</p>	<p><u>NCR CLASSIFICATION (TRAVELER)</u></p> 	<p><u>D3 CLASSIFICATION (TRAVELER)</u></p> 	<p>CLASSIFICATIONS by TRAVELERS <i>D3's are grouped and totaled based on pre- defined categories</i></p>
<p>N/A</p>	<p><u>NCR CLASSIFICATION (PROJECT)</u></p> 	<p><u>D3 CLASSIFICATION (PROJECT)</u></p> 	<p>CLASSIFICATIONS by PROJECT <i>D3's are grouped and totaled based on pre- defined categories and then sorted from greatest to least (Pareto)</i></p>

TRAVELER WEEKLY REPORT

OPEN Travelers

Weekly Traveler Report -- 12-Dec-2014									
Travelers OPENED/CLOSED since 05-Dec-2014									
SeqNum	TravID	Rev	OpenWho	OpenDate	Status	CloseWho	CloseDate	D3ID	NCRID
Project: C50R (OPEN)									
Project: C50R (CLOSED)									
Project: L2P (OPEN)									
Project: L2P (CLOSED)									
Project: L2 (OPEN)									
18	L2Q0-CAV-ASSY1	R1	DREYFUSS	05-Dec-2014	n				
19	L2Q0-CAV-ASSY1	R1	DREYFUSS	05-Dec-2014	n				
Project: L2 (CLOSED)									
Project: STP (OPEN)									
84	STP-CAV-VTRF	R1	ARI	08-Dec-2014	n				
85	STP-CAV-VTRF	R1	GRIGORY	10-Dec-2014	n				
86	STP-CAV-VTRF	R1	GRIGORY	10-Dec-2014	n				
87	STP-CAV-VTRF	R1	GRIGORY	10-Dec-2014	n				
Project: STP (CLOSED)									
Project: TORUS (OPEN)									
Project: TORUS (CLOSED)									
1	TORUS-MAG-PREP-CCM	R3	FISCHER	15-Nov-2014	y	FISCHER	05-Dec-2014	F100	

Traveler Weekly Report							
Opened/Closed this week				Accumulative Totals			
Project	Week Opened	Week Closed	% Open	Total Open	% Closed	Total Closed	Total Trav
C50R	0	0	38.91%	221	61.09%	347	568
L2P	0	0	100.00%	16	0.00%	0	16
L2	2	0	89.66%	52	10.34%	6	58
STP	4	0	82.35%	84	17.65%	18	102
TORUS	0	1	75.00%	24	25.00%	8	32
HZB	1	0	97.62%	41	2.38%	1	42
QCM	3	1	86.27%	44	13.73%	7	51
L2Q0	2	1	85.71%	36	14.29%	6	42
C100	0	0	0.34%	21	99.66%	6239	6260
F100	0	2	0.00%	0	100.00%	458	458

List of travelers, by project, that have been opened or closed in the past week.

Also provides statistics on TOTALs by project.

D3s (OP/CL)

- 1 Links to D3s
- 2 Links to Travelers
- 3 Green = Closed / Orange = Open
- 4 Filters (select menus)
- 5 Sorting (select column header)

Select a Project:
 -Select
 BES
C100
 C50R
 F100

Select a D3 Report:
 C100-CAV-D3
 C100-D3

Open/Closed - Status

D3 Classification: Select All

TravelerId: Select All

Dates: All

On or After: [Calendar Icon]

Before: [Calendar Icon]

Export results to: Excel PDF

Percent Closed: 100

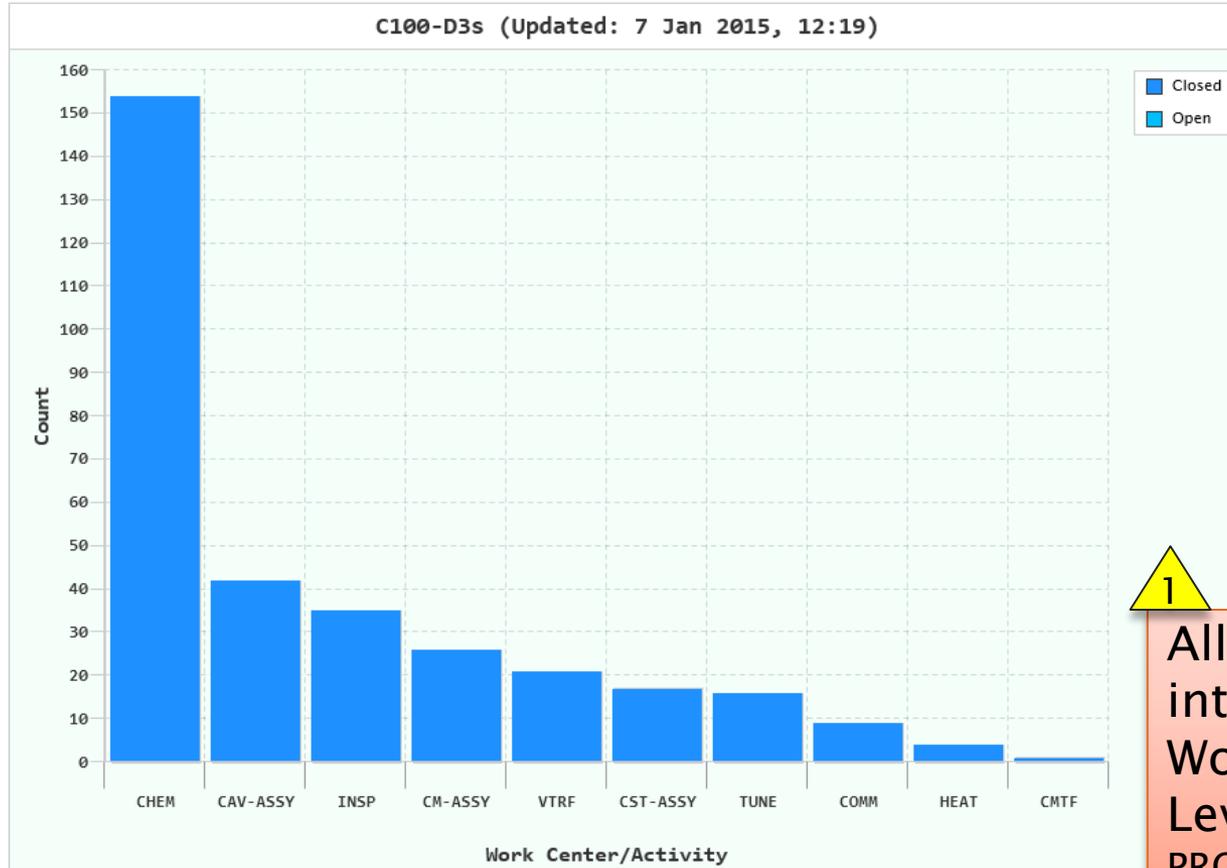
d3_seq_num	SerialID	d3classification	travelerid	trav_seq_num
2	C100_RI_002	EP	C100-CAV-EPOL	2
3	C100_RI_003	EP	C100-CAV-EPOL	3
4	C100_RI_003	HPR	C100-CAV-EPOL	4
5	C100_RI_005	EP	C100-CAV-EPOL	6
7	C100_RI_004	LEAK	C100-CAV-VTRF	6
8	C100_RI_004	LEAK	C100-CAV-VTRF	6
9	C100_RI_008	LEAK	C100-CAV-ASSY2	10
10	C100_RI_009	EP	C100-CAV-EPOL	10
11	C100_RI_011	EP	C100-CAV-EPOL	12
13	C100_RI_008	OTHER	C100-CAV-ASSY2	11
14	C100_RI_008	DISCREPANCIES	C100-CAV-ASSY2	11
15	C100_RI_007	HPR	C100-CAV-HPR	21
16	F067763-20	DISCREPANCIES	C100-CAV-INSP-WGD	52
19	C100_RI_007	EP	C100-CAV-EPOL	14
20	C100_RI_007	EP	C100-CAV-EPOL	14
22	F067764/02	BCP	C100-CAV-INSP-WGD	1
25	C100_RI_007	DEVIATIONS	C100-CAV-TUNE	1
28	C100_RI_007	WELDING	C100-CAV-INSP2	1
29	C100_RI_005	RF_TEST_ABORTED	C100-CAV-VTRF	1
30	C100_RI_011	BCP	C100-CAV-VTRF	1
31	C100_RI_003	HPR	C100-CAV-HPR	1
32	C100_RI_012	HPR	C100-CAV-HPR	1
33	C100 RI 008	HPR	C100-CAV-HPR	1

These options are available on most reports.

D3s BY WORKCENTERS

Work Center D3 Status

Project: C100



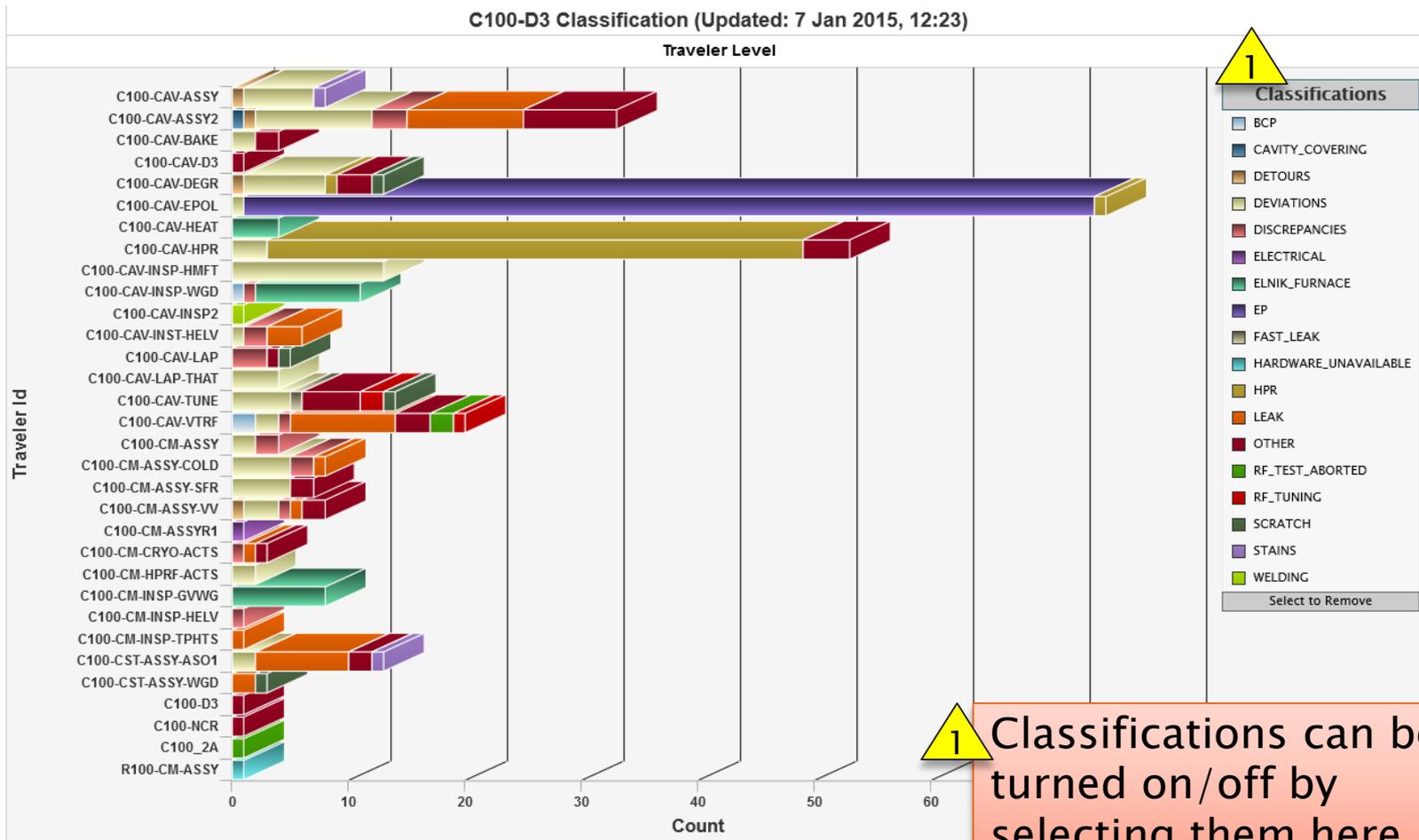
C100 D3 Report Summary

Area	Open	Closed	Total
CHEM	0	154	154
CAV-ASSY	0	42	42
INSP	0	35	35
CM-ASSY	0	26	26
VTRF	0	21	21
CST-ASSY	0	17	17
TUNE	0	16	16
COMM	0	9	9
HEAT	0	4	4
CMTF	0	1	1



All Travelers are placed into “buckets” based on WorkCenters.
 Level 3 of Traveler ID
 PROJ-SYS-**WCA**-COMP-COMP

D3 CLASSIFICATION (TRAVELER)



D3 CLASSIFICATION (PROJECT)

DATAMINE

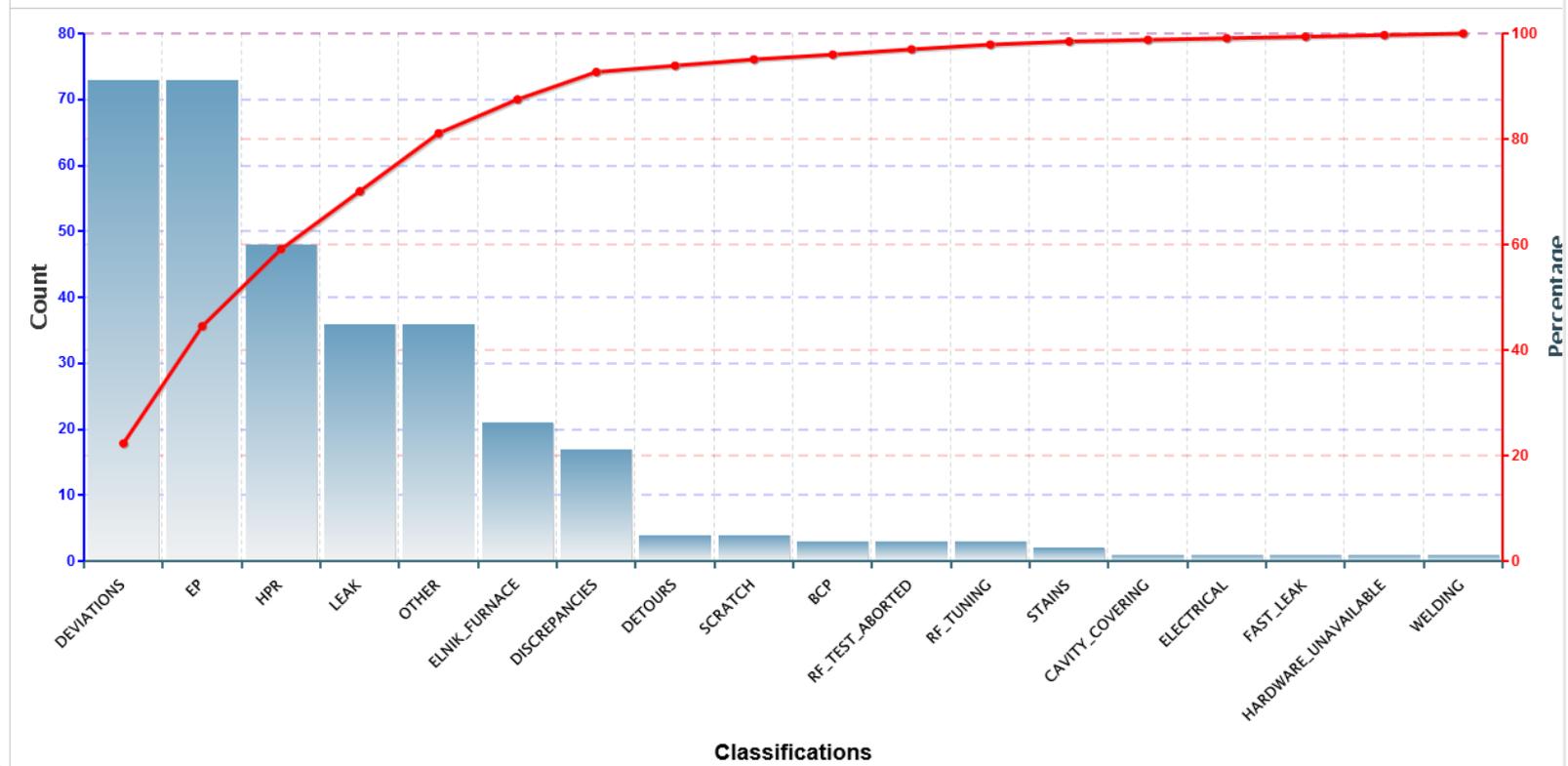
Classifications are order from greatest to least

Select a Project:

C100

C100-D3 Classification (Updated: 7 Jan 2015, 12:24)

Project Level



Data Mining Menu (Queries)

The screenshot displays the Pansophy web application interface. At the top left, the Pansophy logo is accompanied by the tagline "A System of Universal Knowledge". On the top right, a notification box states "you have been authenticated" with links for "who am i" and "click here to logout". A horizontal navigation bar contains several menu items: "MAIN MENU", "DATAMINE MENU ->", "QUERIES", "REPORTS", "SRF REPORTS", "12 GeV REPORTS", "C50 DRILLDOWN", and "CLOSED PRJ". The "QUERIES" menu is currently expanded, showing a list of options: "SERIAL NUMBER SEARCH", "CAVITY PERFORMANCE", "USER CANNED REPORT", "VARGRID", and "USER DEFINED". On the left side of the main content area, there is a "Select a Project:" label above a dropdown menu with the following options: "-Select-", "BES", "C100", "C50R", and "F100". The main content area is titled "DATAMINE" and includes a label "eler:".

Serial Number (SN) Search

Select Project(s): Select a Type of Serial Number: Select the Serial Number Value(s):

Status: **Open** or **Closed** Dates: On or After Before Export results to Excel PDF Percent Closed 92

TRAVID	trav_seq_num	serial_number	trav_open_who	trav_open_date	trav_close_who	trav_close_date	D3	NCR
C100-CAV-INSP	59	C100-RI-052	OGLE	01/20/11	OGLE	01/24/11		307
C100-CAV-RFIN	52	C100-RI-052	OVERTONR	05/11/11	FOREHAND	09/15/11		
C100-CAV-DEGR	183	C100-RI-052	TMHARRIS	05/12/11	JDAVEN	05/12/11		
C100-CAV-HEAT	53	C100-RI-052	OVERTONR	05/24/11	FOREHAND	12/15/11		
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	147	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	156	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	157	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	158	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	159	
C100-CAV-TUM	69	C100-RI-052	OVERTONR	09/08/11	FOREHAND	03/23/12		
C100-CAV-INST 2	60	C100-RI-052	OGLE	09/13/11	OGLE	09/15/11		737
C100-CAV-INST-HELV	53	C100-RI-052	MCCREA	09/14/11	FISCHER	10/26/11		770
C100-CAV-LAP	85	C100-RI-052	DANIELS	09/23/11	CARPENTE	01/04/12		
C100-CAV-DEGR	254	C100-RI-052	TMHARRIS	09/26/11	JDAVEN	10/07/11		
C100-CAV-HPR	229	C100-RI-052	TMHARRIS	09/26/11	JDAVEN	10/06/11		
C100-CAV-ASSY	82	C100-RI-052	DREYFUSS	09/27/11	CASTAGNO	12/15/11		
C100-CAV-HPR	231	C100-RI-052	FOLLKIEJ	09/27/11	JDAVEN	10/06/11		
C100-CAV-ASSY2	105	C100-RI-052	CJOYNER	09/28/11	CASTAGNO	12/19/11	245	

Select: Project, Serial Number type (i.e. CAVSN, CMSN), and Serial Number value(s) (i.e. C100-RI-002)
Display: All travelers which contain the selected values

CAVITY PERFORMANCE

QUERIES

Report for: C100

Status: Open Closed

Select Cavity(ies): C100-002, C100-003, C100-004, C100-004_2, C100-005

Select String: [Empty]

Dates: All

Export results to: Excel PDF

TRAV_SEQ_NUM	CAVSN	TESTDATE	TESTOPE...	DEWAR	DEW...	HELL...	CAVITYMEETS...	VTATSSN	LOCKFREQUEN...	RADAT20MVM	FEONSETMVM	QEXTFP	EMAXMVM
1	C100-1	06/02/10	GRENOBLE	8	2.07	false		TS28-007			20	9.90e+11	25.4
4	C100-RI-002	09/29/10	Grenoble	4	2.07	false	true	TS28-003	1496.6558	5.97	22.5	1.24e+12	27.1
5	C100												
6	C100												
7	C100												
8	C100												
9	C100												
10	C100												
11	C100												
12	C100												
13	C100-RI-005	10/18/10	KDAVIS										
17	C100-RI-005	12/02/10	GRENOBLE										
25	C100-RI-005	12/02/10	Grenoble										

QUERIES

Report for: C100

Status: All Open Closed

Select Cavity(ies): C100-RI-001, C100-RI-002, C100-RI-003, C100-RI-004, C100-RI-005

Select String: C100-002

Dates: All

Export results to: Excel PDF

QUERIES

Report for: C100

Status: All Open Closed

Select Cavity(ies): C100-002, C100-003, C100-004, C100-004_2, C100-005

Select String: C100-002

Dates: All

Export results to: Excel PDF

QUERIES

Report for: C100

Status: All Open Closed

Select Cavity(ies): C100-002, C100-003, C100-004, C100-004_2, C100-005

Select String: C100-002

Dates: All

Export results to: Excel PDF

TRAV_SEQ_NUM...	CAVSN	TESTDATE	TESTOPE...	DEWAR	DEW...	HELL...	CAVITYMEETS...	VTATSSN	LOCKFREQUEN...	RADAT20MVM	FEONSETMVM	QEXTFP	EMAXMVM
4	C100-RI-002	09/29/10	Grenoble	4	2.07	false	true	TS28-003	1496.6558	5.97	22.5	1.24e+12	27.1
31	C100-RI-013	01/28/11	GRENOBLE	8	2.07	true	true	TS28-007	1496.4407			1.11e+12	14.67
32	C100-RI-015	01/26/11	KDAVIS	7	2.07	true	true	TS28-008	1496.4575			1.18e+12	27
35	C100-RI-001	02/01/11	STIRBET	8	2.07	true		TS28-001	1496.4402			5.41e+11	27
36	C100-RI-002	02/03/11	KDAVIS	4	2.07	true	true	TS28-004	1496.3874			8.82e+11	27
38	C100-RI-013	02/08/11	TRASS	8	2.07	true		TS28-009	1496.4365			1.25e+12	27.1

Select: Project → Display: All VTA cavity tests for project (pre-defined columns)

Select: CAVSN(s) → Display: All VTA cavity tests for selected CAVSN(s)

Select: CMSN → Display: All cavities for selected CMSN and all related VTA test results

Data Mining Menu (Other)

MAIN MENU	DATAMINE MENU ->	QUERIES	REPORTS	SRF REPORTS	12 GeV REPORTS	C50 DRILLDOWN	CLOSED PRJ
				STATUS BOARDS			
				CAVITY PERFORMANCE	C100 REPORT		
					C100		
					C50R		
					F100		
					R100		

MAIN MENU	DATAMINE MENU ->	QUERIES	REPORTS	SRF REPORTS	12 GeV REPORTS	C50 DRILLDOWN	CLOSED PRJ
				STATUS BOARDS		C100 CAVITY	
				CAVITY PERFORMANCE		F100 CAVITY	

C100 Cavity Status Board (ex)

REPORTS

Serial ID	INSP	RFIN	PreHeat DEGR	HEAT	THKN	PreEP DEGR	EPOL	PostEP DEGR	TUNE	HELV	LAP	1st HPR	ASSY	2nd HPR	ASSY2	BAKE	VTRF	
	C100-CAV-IN SP	C100-CAV-RFIN	C100-CAV-DEGR	C100-CAV-HEAT	C100-CAV-THKN	C100-CAV-DEGR	C100-CAV-EPOL	C100-CAV-DEGR	C100-CAV-TUNE	C100-CAV-IN ST-HELV	C100-CAV-LAP	C100-CAV-HPR	C100-CAV-A & B Y	C100-CAV-HPR	C100-CAV-A & B Y2	C100-CAV-BAKE	C100-CAV-VTRF	
C100-1		16							10 23		12 7 18						1	
C100-2																		
C100-3													55 58		62			
C100-4																		
C100-RI-001	1	1	3	1		585	2	899	2 11	13	17	582	13 27	38 83 100 115	13 29	1	235 146	
C100-RI-002	2	2	4	2	321	7	3	10 103	3 12	14	19	785	24 28	48 94 109	24 30	3	34 38	
C100-RI-003	4	3	8	3	22 4	11	4	15 20	4 13	5	8	935	5 17	10 35 52	5 18	4	5 15 24	
C100-RI-004	5	4	9	4	87	14	5	19 25 56	5 14	4	6	11 32	6 16	12 34 47	6 17 19	5	6 16 14	
C100-RI-005	7	5	12	5	5 10	18	3	23 27 54	6 15	3	4	13 29	7 15	14 33 51	7 16	3	7 13 17 25	
C100-RI-006	8	6	13	6	9 11	23	7	28 30 43 52	7 16	2	3	15 23 27	8 11 12	16 24 28 53	8 12 13	7	8 9 18	
C100-RI-007	9	7	16	7	9 12 25	24	8 14	28 34 42 55 66	8 17 25	9	5 12	17 21 30 43	9 14 21	18 31 44 49	9 15 23	8 9	12 19	
C100-RI-008	10	8	17	8	14 17	74	9 32	33 38 50 79 133	9 18 19 40 62 85	42		13 32 55	19 25 55 141 192	10 13 23 53 71	20 22 26 56 64 142 193	10 11 14 25 31 69 89	10 38	10 11 26 37 68 85
C100-RI-009	12	9	21	9	13 15	29	10	38	20 106		104	362	123	364	152	32 93	151	
C100-RI-010	11	10	22	10	18 19	32	11	39 50	21	8		38	18	40 48	20	12	21	
C100-RI-011	13	11	31	11	18 22	37	12	41 58 70	22	7	9 10	37 45	19 22	39 46 54	21 24	11	22 23	
C100-RI-012	14	17	35	12	20 23	40	13	51	24	8	11	41	20	42 50	22		20	
C100-RI-013	17	14	49	13		52	19	71 92	29	11	16	50	26	61 68 93 108	28 33	16	31 38	
C100-RI-014	18	15	53	14		57	17	78 84	26	10	14	57	24	58	26	13	30	
C100-RI-015	15	12	44	15	24 26	46	15	47 88	27	12	15	59	25	59 113	27	14	32	
C100-RI-016	38	22	69	21		57	23	91	31	17	45	139	51	140	38	38	35	
C100-RI-017	16	13	45	16		48	16	51 106 123	28	15	20 25	68 75	29 33	67 76 78 101 116	32 37	16	39 42	
C100-RI-018	19	18	58	17		75	18	77 109	30	16	21	69	30	70 95 110	34	17	40	
C100-RI-019	20	19	64	18		88	20	72 118	32	18	22	71	31	72 96 111	35	18	41	
C100-RI-020	22	20	83	19		78	21	80 119	33	19	23	73	32	74 98 97 112	36 42	19	43 46	
C100-RI-021	23	21	87	20		81	22	85 124	35	20	24	77	34	79 87 89	38 43 45	20	44 47	
C100-RI-022	24	23	82	22		90	24	95 96 128	34	21	26		35	81 88	39 44	21	45 48	
C100-RI-023	25	24	83	23		89	25	101 135	36	22	27	82 164	36 60	83 90 165	40 46 77 80	22	49 72 74	
C100-RI-024	31		145	42		41	41	155	49		46	144	58	145	74	39	57	
C100-RI-025	26	25	86	24 25	27	38	26	107 138	37	23	28	84	37	85 98	41 48	23	50 51	
C100-RI-026	27 62	45	156	44		46	46	168	55	40		150	70	191	88	47	84	
C100-RI-027	29	26	93	26		104	27	108 143	38	24	29 34 36	91 114 125	38 42 45 88	92 117 126 130 137	47 52 58 60 87 111	30	59 63	
C100-RI-028	28	27	94	27		105	28	114	39	25	30	102 103	39		49	24	52	
C100-RI-029	30	28	97	28		112	29	117 151	41	26	33	106	41	107	51 78	26	53 69	
C100-RI-030	31	29	100	29		113	30		42	27	35	118	43	119	54	27	55	
C100-RI-031	32	30	110	30		121	31	130 158 159	43	28	37 38	120	44	123	55	28	56	
C100-RI-032	33	31		31		129 131	35	111 140 149 150	44 72	41	31 58	104 194	40 50 54 72	105 124 198 208	50 53 57 65 70 91 97	25 37	54 58 87 98	
C100-RI-033	34	32	115	32			33	134 167	45	30	40	127	46	128	59	31	80	

Project management view of Cavity Processing:
 Cavities to be processed (Rows)
 The Processes / Travelers (Columns)

Other uses: Cavity String Assembly, Cryomodule Assembly



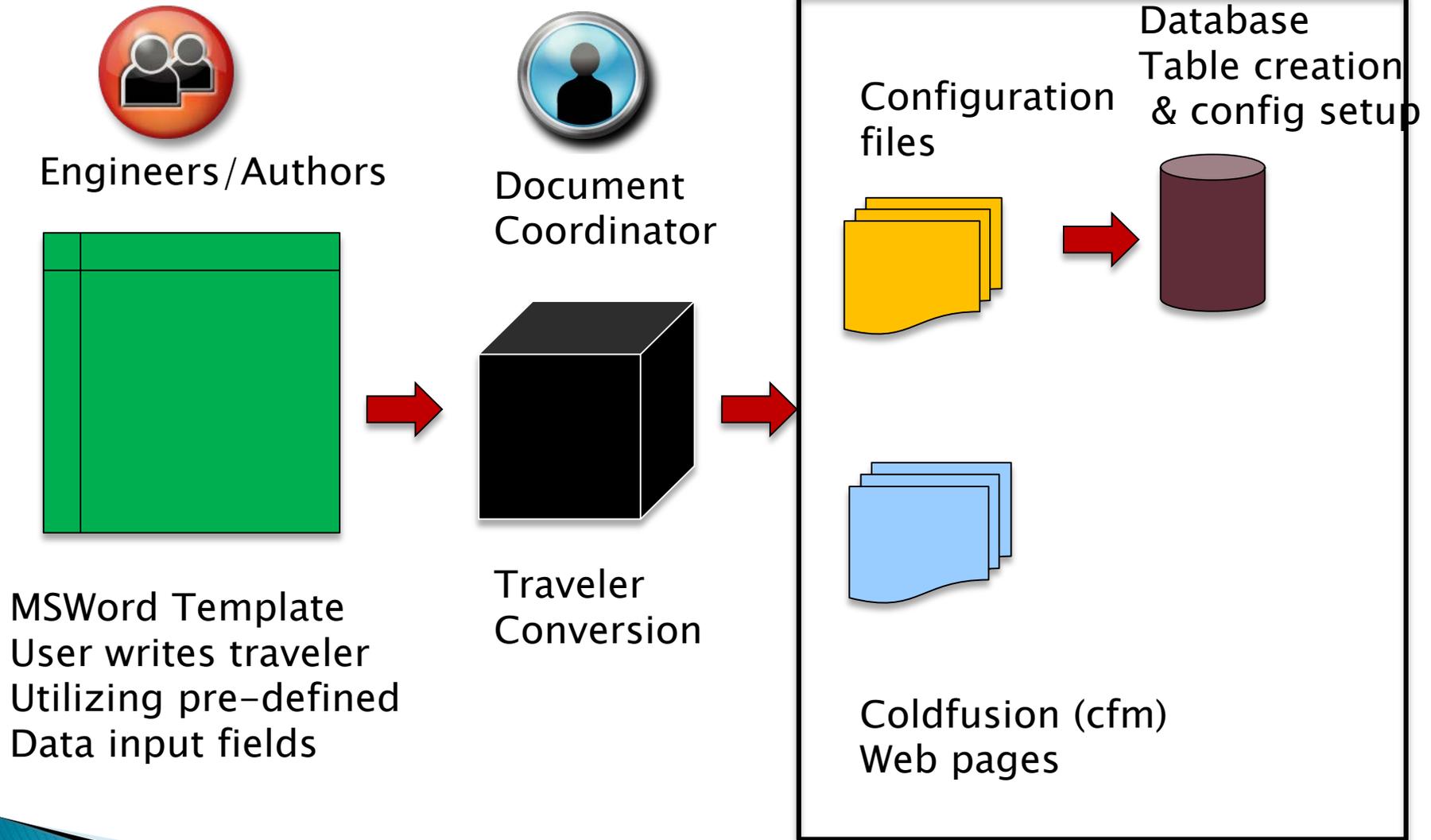
Traveler Authorship

Writing Travelers

Authoring Topics

- Traveler Conversion Process**
- Attach Traveler Template (MSWord 2010)
- MSWord 2010 Tips (Tables; Pictures; Links)
- Pansophy Ribbon
- Traveler ID
- Traveler Header Page
- Variable Names
- Do's and Don'ts

Traveler Conversion (Travelerization)



Traveler Conversion Process

1. Define Travelers/Procedures: Project-specific, Authors and Approvers are identified by the responsible **project manager**.
2. Traveler authors generate drafts of travelers using **MS-Word template**.
3. Traveler is posted in the appropriate **DocuShare** directory.
4. Traveler is **converted** to ColdFusion , the supporting database is constructed and the Traveler is made live in Pansophy.
5. **Traveler** is now **usable** from the Web on the production floor.

Traveler Document Control



Do's

- Do Use the current template for new and existing documents
- Do provide signed hardcopy to document coordinator
- **Do upload final versions of your traveler to DocuShare**
- Do document changes with new revisions
- Do Check out a document by clicking on the checkmark icon (middle icon) to prevent others from editing it
- Do Re-upload documents as a new version in DocuShare and add comments

Don'ts

- Don't Forget to save documents downloaded from DocuShare to your hard drive
- Don't Click on the document title to download it from DocuShare, **USE the "check out" button**
- Don't Attempt to get around the locked icon in DocuShare to edit a document, USE "check in" button
- Don't Leave off comments if you've changed the document in any way

Authoring Topics

- Traveler Conversion Process
- Attach Traveler Template (MSWord 2010)**
- MSWord 2010 Tips (Tables; Pictures; Links)
- Pansophy Ribbon
- Traveler ID
- Traveler Header Page
- Variable Names
- Do's and Don'ts

Attach The Templates

Your MSWord 2010 Work Group Templates should be pointing to the directory below:

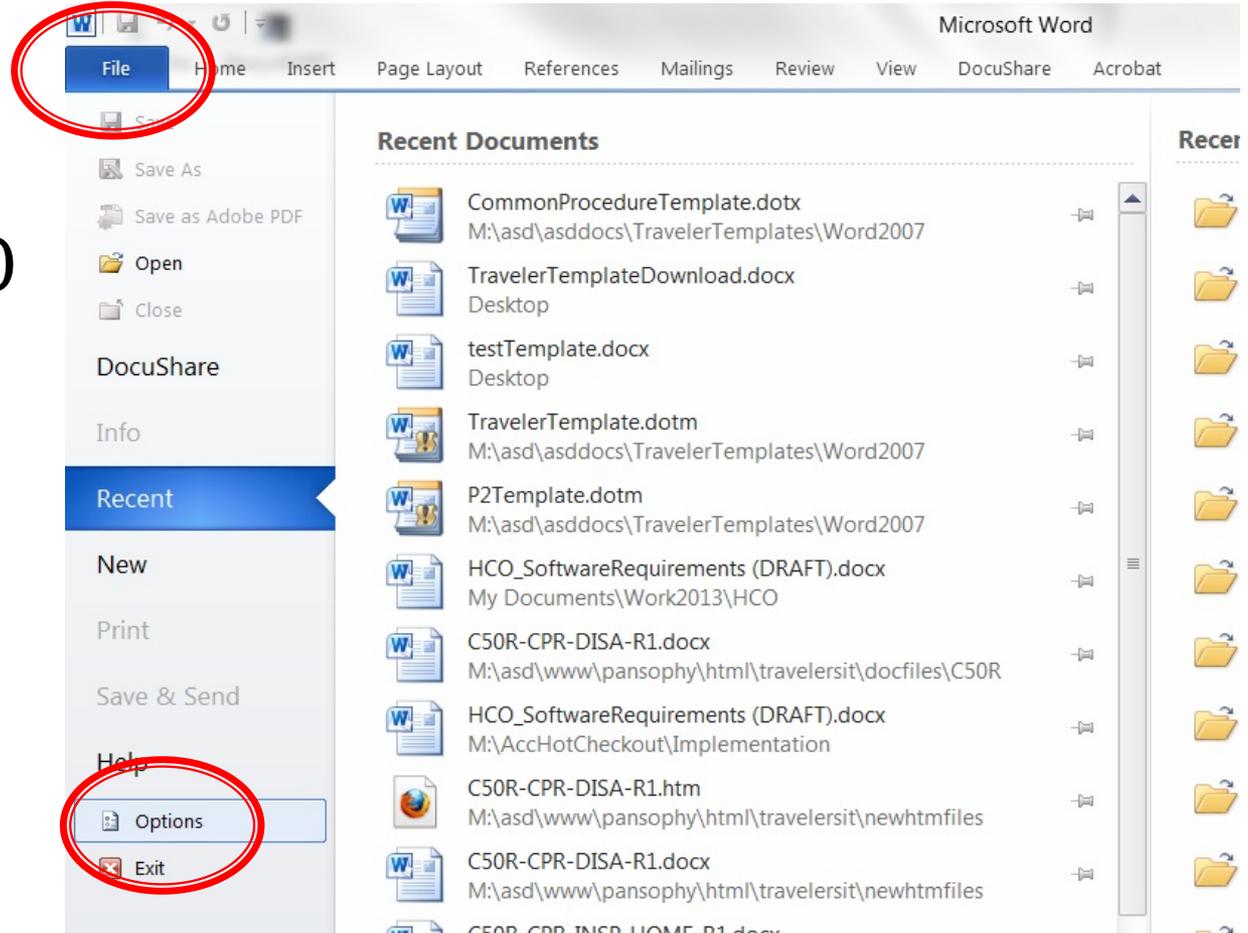
M:\asd\asddocs\TravelerTemplates\Word2010

Both a Traveler and a Procedure Template are available.

Attaching the Template...

For Travelers & Procedures:

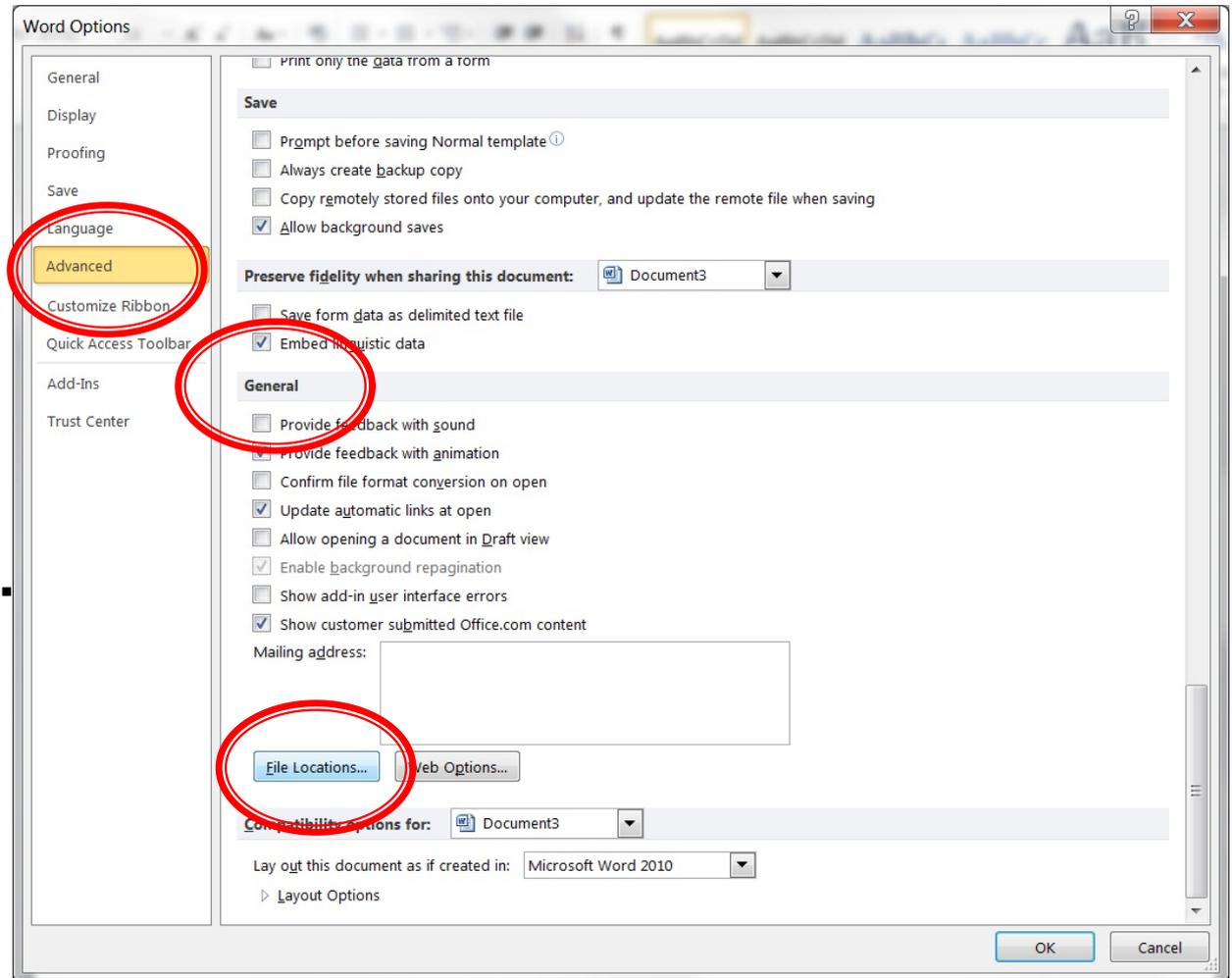
- ▶ Open Microsoft Word 2010
- ▶ Select File Tab
- ▶ Select Options



Attaching the Template (cont.)

For Travelers & Procedures:

- ▶ Select **Advanced**
- ▶ Scroll to **General**
- ▶ Click **File Locations...** Button



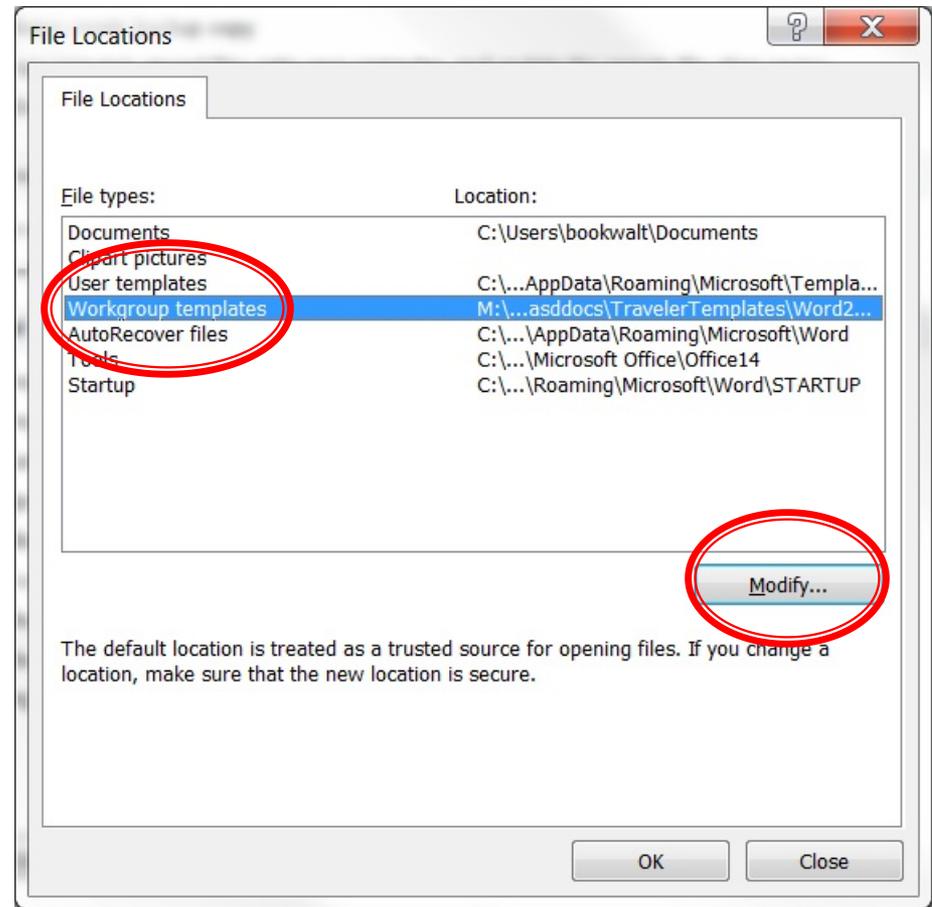
Attaching the Template (cont.)

For Travelers & Procedures:

A File Locations

pop-up window
will appear

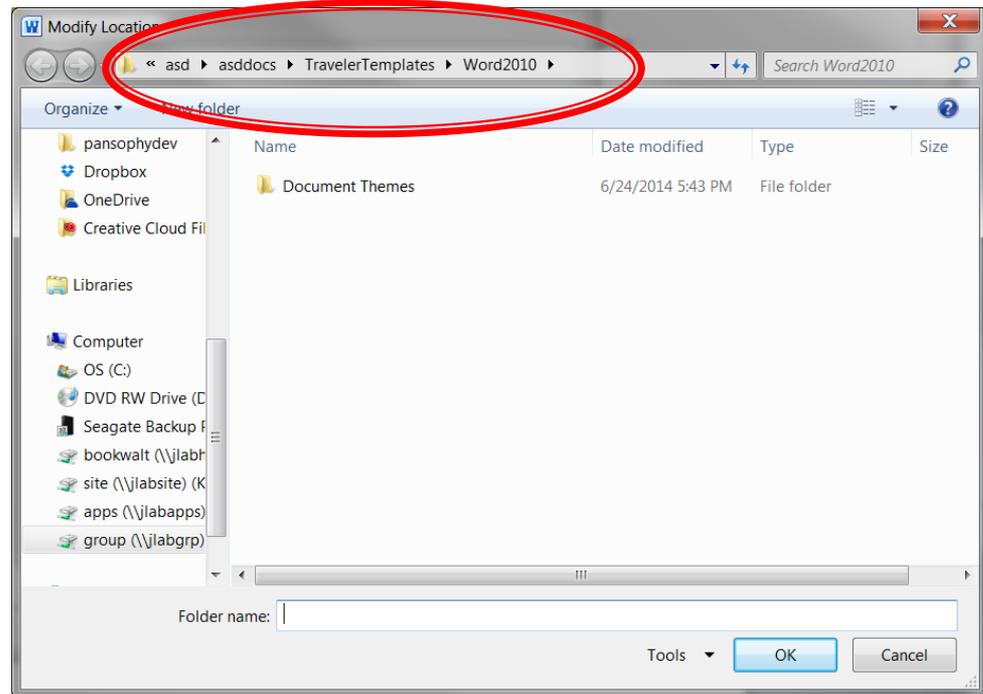
- ▶ Select **Workgroup templates**
- ▶ Click the **Modify...** Button



Attaching the Template (cont.)

For Travelers & Procedures:

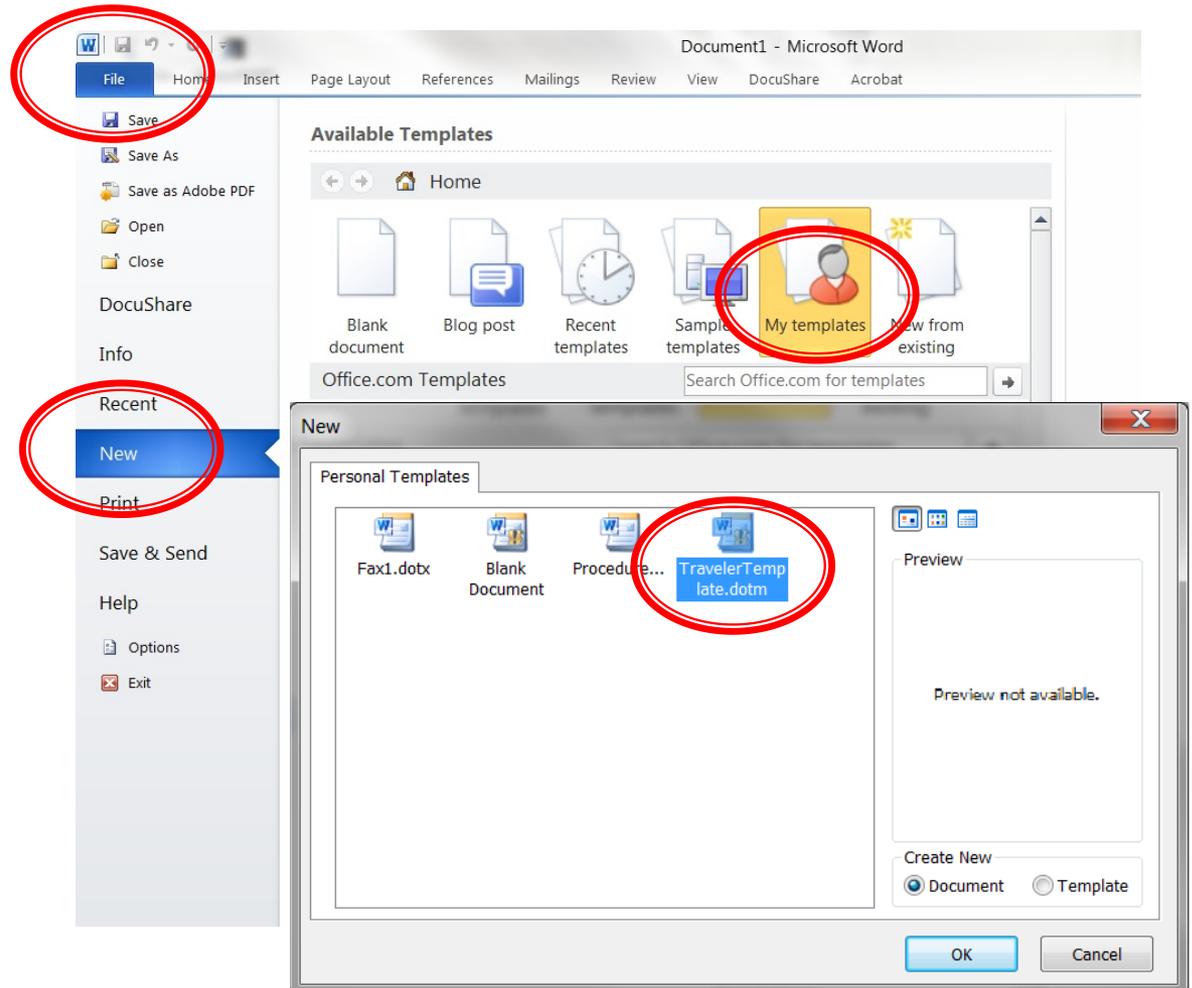
- ▶ Browse to:
M:\asd\asddocs\TravelerTemplates\Word2010
- ▶ Click OK
- ▶ Click OK on File Locations
- ▶ Click OK on Word Options



Create A New Traveler...

To create a new Traveler:

- ▶ Select File Tab
- ▶ Select New
- ▶ Select My templates
- ▶ Select Traveler Template



Traveler Creation

Document2 [Compatibility Mode] - Microsoft Word

File Home Insert Page Layout References Mailings Review View Developer DocuShare Acrobat Pansophy Design Layout

CheckBox Float Note Select Username Emails
 Comment SN Radio Text YesNo
 FileUpload Integer SciNot Timestamp HoldPoint

Entry Fields PAGE MODS USERS CM A-L CM M-Z MAG HALLD ERROR CODES
 Page Mods USER SETS PART SNS ERROR CODES

Jefferson Lab
 Thomas Jefferson National Accelerator Facility

TRAVELER

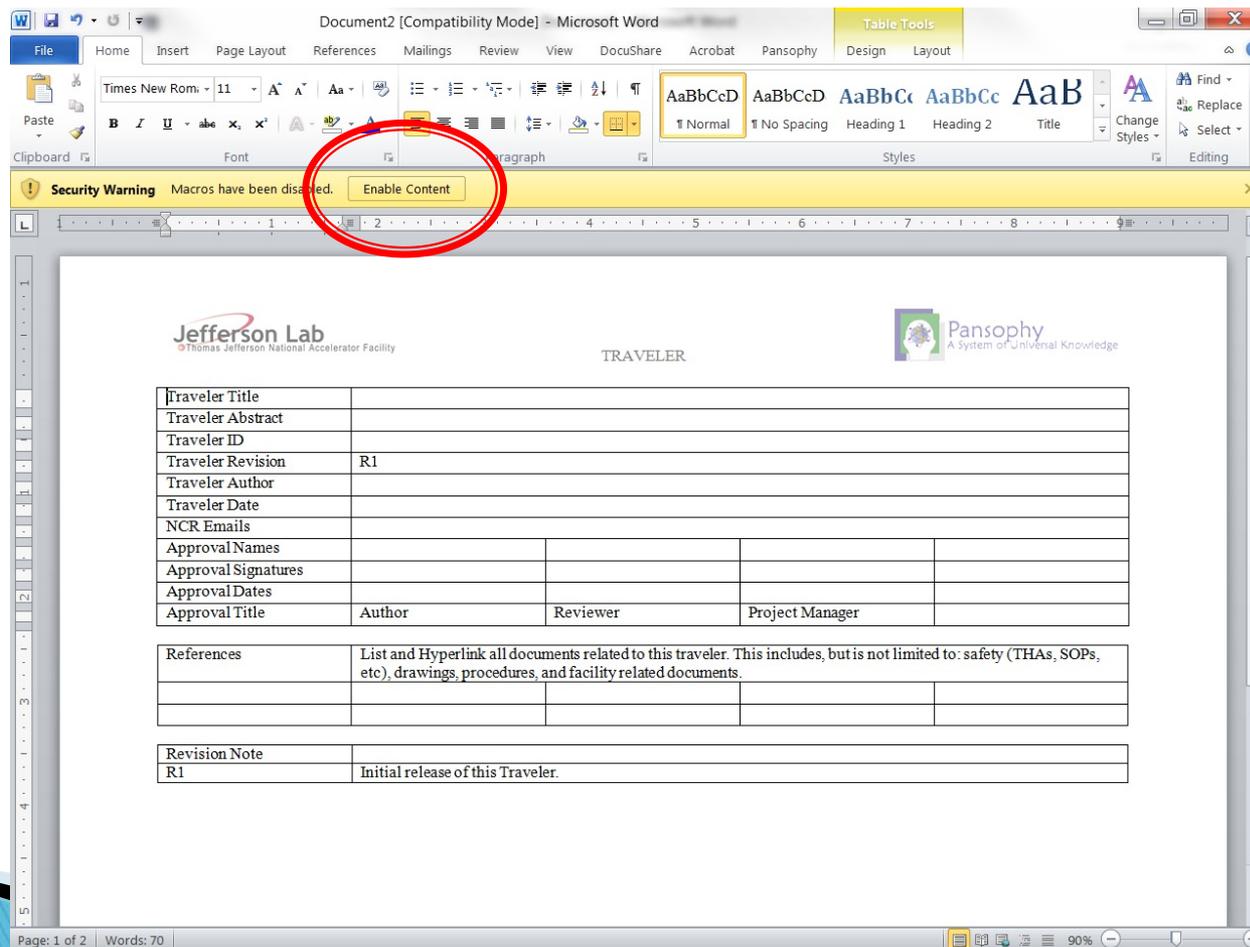
Pansophy
 A System of Universal Knowledge

Traveler Title				
Traveler Abstract				
Traveler ID				
Traveler Revision	R1			
Traveler Author				
Traveler Date				
NCR Emails				
Approval Names				
Approval Signatures				
Approval Dates				
Approval Title	Author	Reviewer	Project Manager	
References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, etc), drawings, procedures, and facility related documents.			
Revision Note				
R1	Initial release of this Traveler.			

- ▶ Word template, macro enabled
- ▶ User/Engineer Authored
- ▶ Process Steps and data Inputs defined
- ▶ Version controlled
- ▶ Links to Procedures, drawings and safety documentation

Enabling the Traveler Template...

Don't forget to enable the Macros



The screenshot shows the Microsoft Word interface with a yellow security warning bar at the top. The warning text reads "Security Warning: Macros have been disabled." and includes a red circle around the "Enable Content" button. The document is titled "Document2 [Compatibility Mode] - Microsoft Word" and is in "Table Tools" design mode. The document content includes logos for Jefferson Lab and Pansophy, the word "TRAVELER", and several tables for metadata and references.

Traveler Title			
Traveler Abstract			
Traveler ID			
Traveler Revision	R1		
Traveler Author			
Traveler Date			
NCR Emails			
Approval Names			
Approval Signatures			
Approval Dates			
Approval Title	Author	Reviewer	Project Manager

References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents.

Revision Note	
R1	Initial release of this Traveler.

Authoring Topics

- ❑ Traveler Conversion Process
- ❑ Attach Traveler Template (MSWord 2010)
- ❑ **MSWord 2010 Tips (Tables; Pictures; Links)**
- ❑ Pansophy Ribbon
- ❑ Traveler ID
- ❑ Traveler Header Page
- ❑ Variable Names
- ❑ Do's and Don'ts



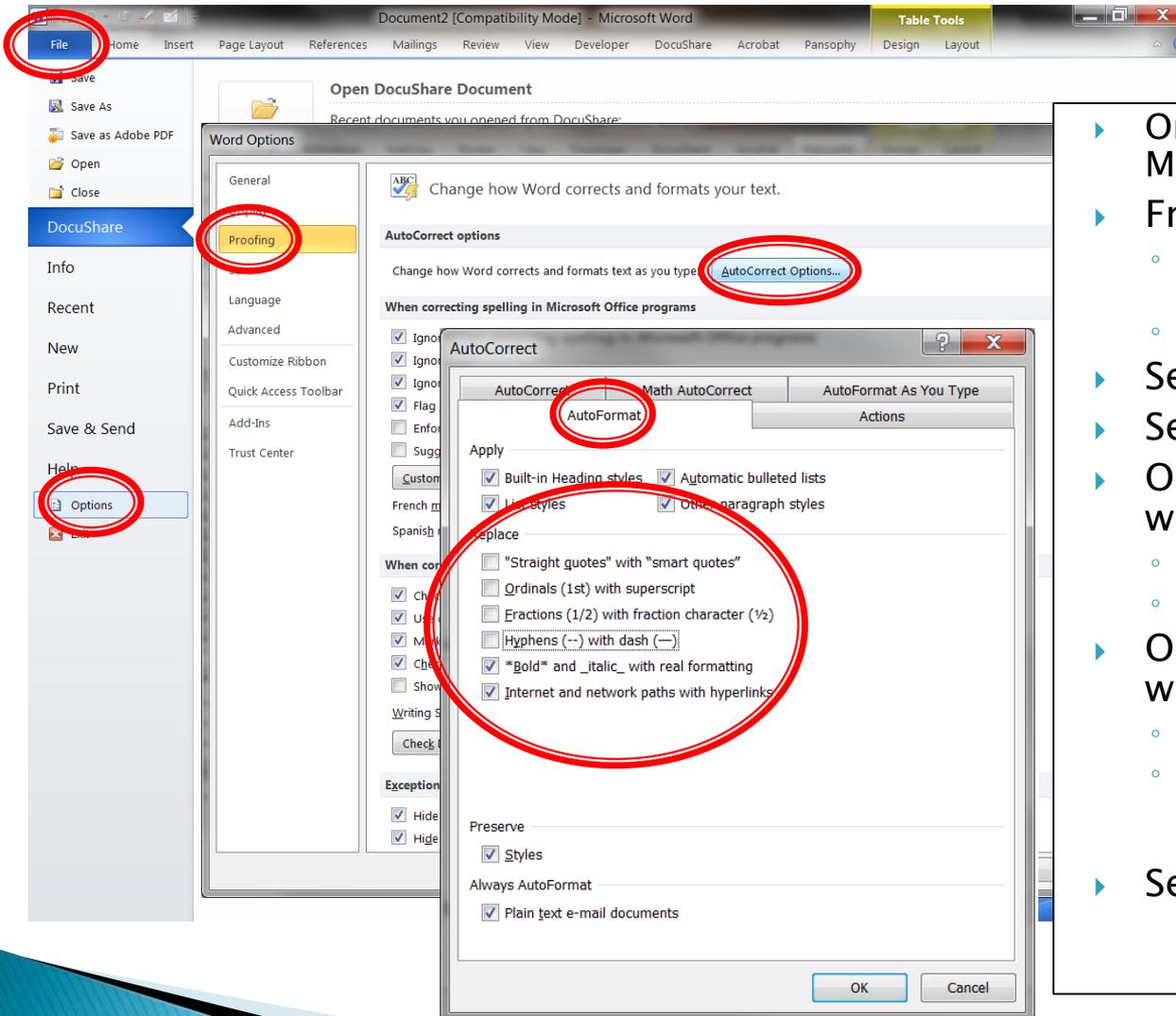
General Authoring hints: Change Your View

- ▶ Change to **Web Layout** on the **View** ribbon and select the **Show/Hide Symbols** icon on the **Home** ribbon to view Page Breaks and other hidden symbols.

The first screenshot shows the Microsoft Word ribbon with the 'View' tab selected. The 'Web Layout' icon is highlighted with a red box. The second screenshot shows the 'Home' tab selected, with the 'Show/Hide Symbols' icon (represented by a yellow square with a black symbol) highlighted with a red box. Below the screenshots is a table representing the document content.

Traveler Title			
Traveler Abstract			
Traveler ID			
Traveler Author			
Traveler Date			
Traveler Revision	R1		
Approval Names			
Approval Date			
Approval Title	Author	Reviewer	Project Engineer
References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility-related documents.		
Revision Note	Initial release of this Traveler.		

General Authoring hints: Turning Off Smart Tags



- ▶ Oracle will not accept MSWord's Smart Tags.
- ▶ From Inside MSWord 2010
 - Either when creating a new document from the template
 - OR editing an older document.
- ▶ Select **FILE**
- ▶ Select **OPTIONS**
- ▶ On "Word Options" Pop-Up window
 - Select **Proofing**
 - Select **AutoCorrect Options..**
- ▶ On "AutoCorrect" Pop-Up windows
 - Select **AutoFormat** tab
 - Under **Replace**: un-select checkboxes for; smart quotes, ordinals, fractions and hyphens.
- ▶ Select **OK's** to exit

Working with Tables

- ▶ **Inserting a Row:** to insert a step, please utilize the **table tab** to insert a row above/below. Be aware of where your **cursor** is located, because the insert will use that point as the reference for adding the additional row.

The screenshot shows the Microsoft Word interface with the 'Table Tools' ribbon open and the 'Layout' tab selected. A red box highlights the 'Insert Above', 'Insert Below', 'Insert Left', and 'Insert Right' buttons. Below the ribbon, a table is visible with the following content:

Traveler-Title				
Traveler-Abstract				
Traveler-ID				
Traveler-Author				
Traveler-Date				
Traveler-Revision	R1			
Approval-Names				
Approval-Date				
Approval-Title	Author	Reviewer	Project-Engineer	
References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents.			
Revision-Note	R1 Initial release of this Traveler.			
	Page Break			
Step-No.	Instructions	Data-Input		
1				
2				
3				

Working With Tables (cont.)

▶ Merging cells

▶ Splitting Cells

The image shows two screenshots of Microsoft Word illustrating table operations. The top screenshot shows the 'Merge Cells' button in the 'Table Tools' ribbon highlighted with a red box. Below it is a table with three columns: 'Step', 'Instructions', and 'Data-Inputs'. The first row is partially visible, showing '1p' in the 'Step' column and 'Sign In' in the 'Instructions' column. The second row is also partially visible, showing '2a' in the 'Step' column and 'Shipping ar' in the 'Instructions' column. The bottom screenshot shows the 'Split Table' button in the 'Table Tools' ribbon highlighted with a red box. Below it is a table with seven columns: 'Step', 'Instructions', and five columns of data points. The first row is partially visible, showing '2' in the 'Step' column and 'READIN GS' in the 'Instructions' column. The second row is also partially visible, showing 'SETPOI NT' in the 'Instructions' column and '0%' in the first data column. The third row is also partially visible, showing 'CURRENT READBACK' in the 'Instructions' column and '[[CURRENT_0]]' in the first data column. The fourth row is also partially visible, showing 'TRANSDUCTOR READBACK' in the 'Instructions' column and '[[TRANSDUCTOR_0]]' in the first data column. The fifth row is also partially visible, showing 'AUXILIARY' in the 'Instructions' column and '[[AUXILIARY_CURRENT_0]]' in the first data column.

Step	Instructions	Data-Inputs
1p	Sign In	
2a	Shipping ar	
3a	QC docum	
	a. Travele	
	i. →	
	ii.	
	iii.	
	iv.	
	Flo	
	Hyc	
	v.	

Step	Instructions	Data-Inputs
2	READIN GS	
	SETPOI NT	0% 25% 50% 75% 100% [[PASS-OR-FAIL]]
	CURRENT READBACK	[[CURRENT_0]] [[CURRENT_25]] [[CURRENT_50]] [[CURRENT_75]] [[CURRENT_100]] [[CURRENT_PASS_OR_FAIL]]
	TRANSDUCTOR READBACK	[[TRANSDUCTOR_0]] [[TRANSDUCTOR_25]] [[TRANSDUCTOR_50]] [[TRANSDUCTOR_75]] [[TRANSDUCTOR_100]] [[TRANSDUCTOR_PASS_OR_FAIL]]
	AUXILIARY	[[AUXILIARY_CURRENT_0]] [[AUXILIARY_CURRENT_25]] [[AUXILIARY_CURRENT_50]] [[AUXILIARY_CURRENT_75]] [[AUXILIARY_CURRENT_100]] [[AUXILIARY_PASS_OR_FAIL]]

Inserting Hyperlinks

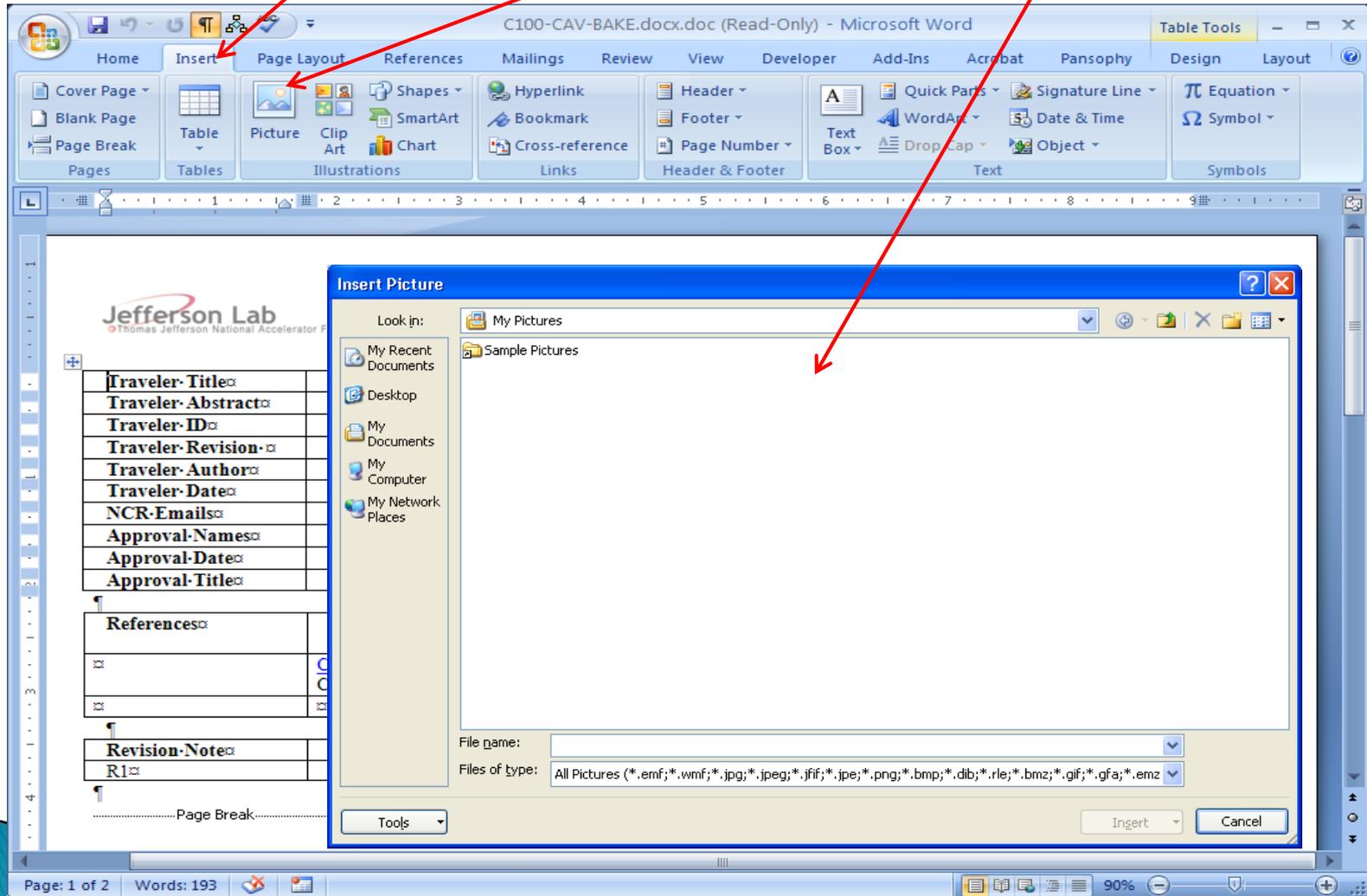
- ▶ From the Insert Tab, select **Hyperlink**.
- ▶ In the **Text to display:** box, enter the text that you want to display in the Traveler .
- ▶ In the **Address:** box, paste the address of the document, etc., being linked to.
- ▶ Select OK.

The screenshot shows the Microsoft Word interface with the 'Insert' tab selected. The 'Hyperlink' button is highlighted in the 'Links' group. The 'Insert Hyperlink' dialog box is open, showing the 'Text to display' and 'Address' fields. The background document is a table with traveler information.

Traveler Title	C100-Cavity Bake-out
Traveler Abstract	120-deg. C-bake of C100-ca
Traveler ID	C100-CAV-BAKE
Traveler Revision	R1
Traveler Author	Kurt Macha
Traveler Date	5/12/2010
NCR-Emails	
Approval-Names	
Approval-Date	
Approval-Title	Author
References	List and Hyperlink all docum (THAs, SOPs, etc), drawing CP-C100-CAV-BAKE Cavity-bake-procedure
Revision-Notes	
R1	Initial release of this Travele

Inserting Pictures/Drawings

- ▶ From the **Insert** tab, select **Picture**, then select your picture.



Authoring Topics

- Traveler Conversion Process
- Attach Traveler Template (MSWord 2010)
- MSWord 2010 Tips (Tables; Pictures; Links)
- Pansophy Ribbon**
- Traveler ID
- Traveler Header Page
- Variable Names
- Do's and Don'ts

The Pansophy Ribbon

The screenshot shows the Microsoft Word interface with the Pansophy ribbon selected. The ribbon is divided into several groups: Entry Fields, Page Mods, USER SETS, and PART IDs. The Entry Fields group includes fields like CheckBox, Comment, FileUpload, Float, ID, Integer, Note, Radio, SciNot, Select, Text, Timestamp, Username, YesNo, and HoldPoint. The Page Mods group includes PAGE MODS. The USER SETS group includes USERS. The PART IDs group includes CM IDs and MAG IDs. A red box highlights the Entry Fields, Page Mods, and USER SETS groups. The Pansophy ribbon tab is also circled in red. Below the ribbon is a Security Warning bar stating "Macros have been disabled." The main document area contains a table with the following content:

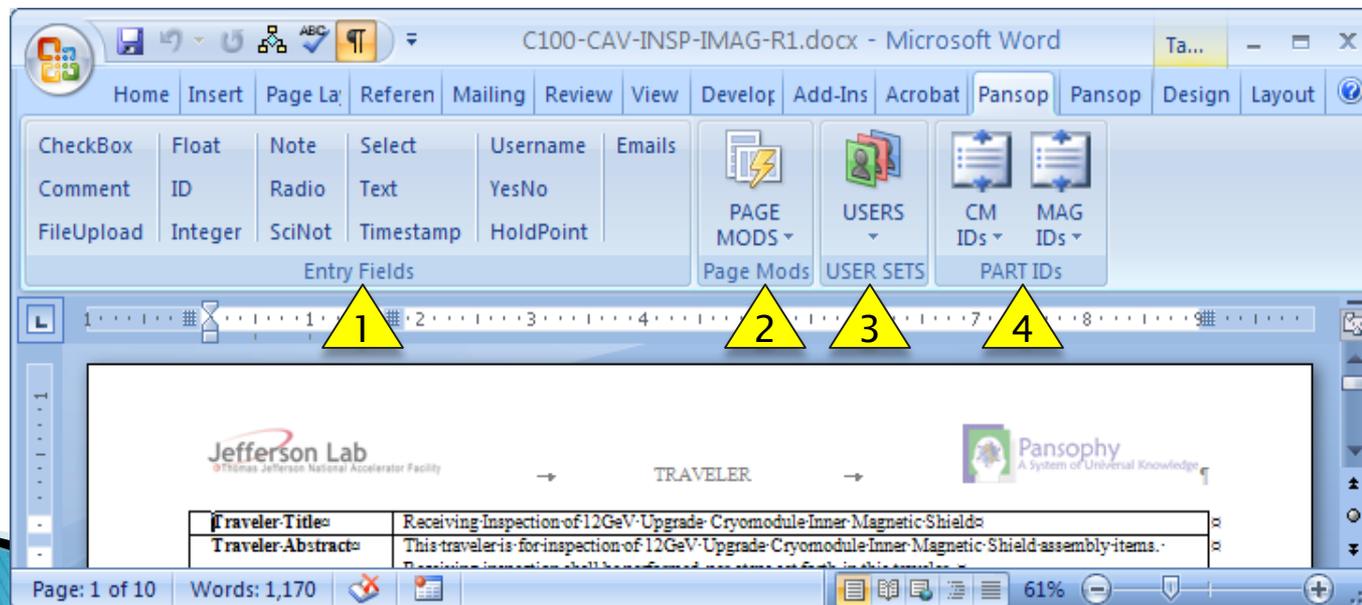
Traveler-Title				
Traveler-Abstract				
Traveler-ID				
Traveler-Revision	R1			
Traveler-Author				
Traveler-Date				
NCR-Emails				
Approval-Names				
Approval-Date				

The status bar at the bottom shows "Page: 1 of 2", "Words: 69", and "90%".

Ribbon Overview

This will display the Traveler Ribbon which provides:

- 1 **Entry Fields** for the FieldNames inserted in the right column of the traveler.
- 2 **Page Mods** button which has the manual page breaks and new tables.
- 3 **USER SETS** button with various user lists that appear as dropdowns in the traveler.
- 4 **PART SNs** buttons with SN lists that appear as dropdowns in the traveler.



Entry Fields

- ▶ Are the only valid input types for travelers
- ▶ Are used to collect the data entered in the traveler
- ▶ Formats:

[[FIELDNAME]] <<FIELDTYPE>>

[[FIELDNAME]] {{CHOICE1,CHOICE2,...}} <<FIELDTYPE>>

- ▶ [[FIELDNAME]], in square brackets, is the variable name used for display on the web page and the column name in the Oracle database
- ▶ <<FIELDTYPE>>, in angle brackets, is the type of input (ex. Float, text, timestamp)
- ▶ {{CHOICE1,CHOICE2,...}}, user types choices for a select menu or radio boxes
- ▶ A complete list of Entry Codes can be found in *Appendix B*

Entering Codes

- ▶ To add a TRAVELER CODE to your Traveler, place your cursor where you would like the CODE to be positioned, then select the type of CODE from the Pansophy Ribbon

Traveler-Revision	R1			
Traveler-Author				
Traveler-Date				
NCR-Emails				
Approval-Names				
Approval-Signatures				
Approval-Dates				
Approval-Title	Author	Reviewer	Project-Manager	
References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility-related documents.			
Revision-Note				
R1	Initial release of this Traveler.			
Page Break				
Step-No.	Instructions			

Data-Input

```
[[FIELDNAME_SRF]]<<SRF>>¶
[[FieldName]]<<TIMESTAMP>>¶
[[SerialNumber]]<<SN>>¶
```

List of Entry Codes
can be found in
Appendix B

Radio & Select (Special Codes)

- **[[FieldName]] {{CHOICE1,CHOICE2,CHOICE3}} <<RADIO>>**
 - Radio buttons display the entire list of options with checkboxes
 - Only one option can be selected
 - FIELDNAME – change (follow the rules)
 - CHOICE(s) – user supplied choices
 - Examples:
[[HOMPosition]] {{top,bottom,left,right}} <<RADIO>>
[[HOMPosition]] {{Top Left,Top Right,BottomLeft,BottomRight}} <<RADIO>>
- **[[FieldName]] {{CHOICE1,CHOICE2,CHOICE3}} <<SELECT>>**
 - Select Menu will display a pull-down (select) list of user supplied options
 - FIELDNAME – change (follow the rules)
 - CHOICE(s) – user supplied choices
 - Examples:
[[VTAOperator]] {{mine,yours,ours}} <<SELECT>>
[[TestNumber]] {{First,Second,Last}} <<SELECT>>

NOTE (Special Codes)

- ▶ A NOTE is used to notify the programmer with special instructions **[[FIELDNAME]] <<NOTE>>**
- ▶ A Note can be used for
 - Automated Calculations
 - Automated Decision making
- ▶ Replace [[FIELDNAME]] with a brief description of programming modification being requested
- ▶ Examples
 - [[Calculate a value Z based on inputs X and Y from the current page]] <<NOTE>>
 - [[If value is measured outside of the designated tolerances check the appropriate box for out-of-tolerance]] <<NOTE>>
- ▶ **Don't forget** to put an input code to receive the calculated value

EMAIL (Special Codes)

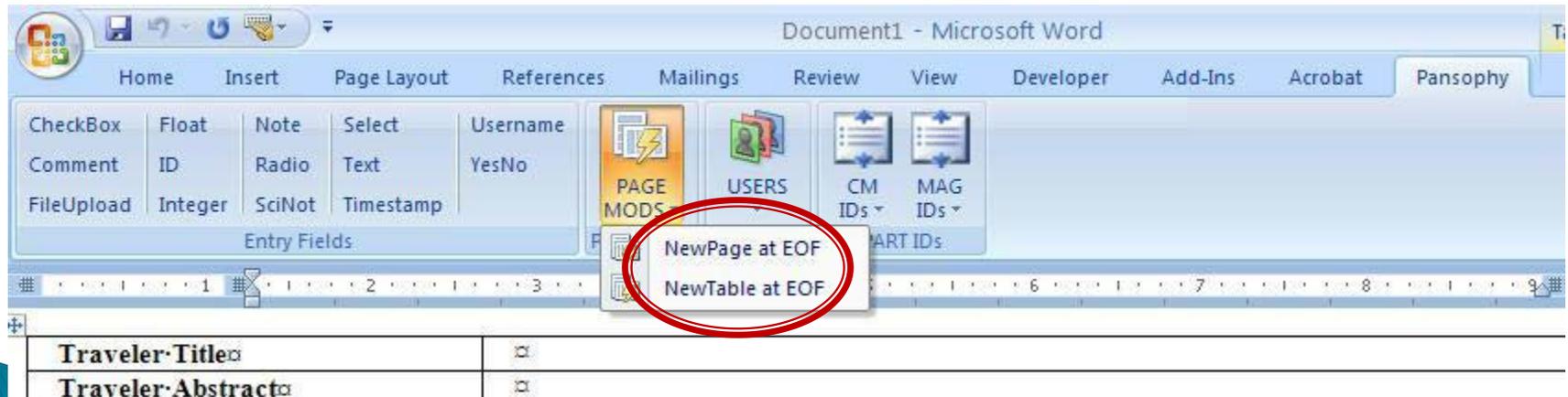
- ▶ Allows for a subject line used to inform receiver why email was sent.
- ▶ Must use same Field Name for both lines of the Entry Fields

The screenshot shows the TRAVELER software interface. At the top left is the Jefferson Lab logo (Thomas Jefferson National Accelerator Facility). At the top right is the Pansophy logo (A System of Universal Knowledge). The title "TRAVELER" is centered. Below the logos is a table with three columns: Step No., Instructions, and Data Input. The first row (Step No. 1) contains the following text in the Data Input column: `[[FieldName]]`, `{{USERNAME1,USERNAME2,USERNAME3}}`, `<<EMAIL>>`, `[[FieldName]] {{SUBJ LINE}}`, and `<<EMAILSUBJ>>`. The second and third rows (Step No. 2 and 3) are empty. At the bottom of the window, there is a status bar with "Page: 2 of 2", "Words: 7/78", and a zoom level of "90%".

Step No.	Instructions	Data Input
1		<code>[[FieldName]]</code> <code>{{USERNAME1,USERNAME2,USERNAME3}}</code> <code><<EMAIL>></code> <code>[[FieldName]] {{SUBJ LINE}}</code> <code><<EMAILSUBJ>></code>
2		
3		

Page Mods

- ▶ When you have finished entering data for the current page and want to start a new page, you must enter a hard page break and a new table. This is accomplished by selecting the **Page Mods -> New Table at EOF**.
- ▶ The EOF stands for End Of File. This traveler code will insert a hard page break and a preformatted table into your traveler at the very end of the document.



New Table at EOF

P2TemplateBlank.docx - Microsoft Word

Table Tools: Design, Layout

Home Insert Page Layout References Mailings Review View Developer Add-Ins Acrobat Pansophy Pansophy Design Layout

Entry Fields: CheckBox, Float, Note, Select, Username, HoldPoint, Comment, ID, Radio, Text, YesNo, SignOff, FileUpload, Integer, SciNot, Timestamp

Controls: PAGE MODS, USERS, CM IDs, MAG IDs

NewPage at EOF

Approval-Names	V. Bookwalter	B. Madres	C. Reese
Approval-Date	11-July-2007	11-July-2007	
Approval-Title	Author	Reviewer	Project-Engineer

References

List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility-related documents.

Drawing-1	Drawing-2	Document 1	Document-2
Resource-2	Other-1	Other-2	

Revision-Note

R1	Initial release of this Traveler.
----	-----------------------------------

Page Break

Step-No.	Instructions	Data-Input
1	Enter Serial-Number of part to be processed	[[SerialID]] <<ID>>
2	TEXT: Enter a label for the cavity.	[[CAVITY_LABEL]] <<TEXT>>
3	INTEGERS: Design-Frequency (MHz) (example: 1500, 805, 750) Number of Cells	[[DESIGN_FREQUENCY]] <<INTEGER>> (MHz) [[NUMBER_OF_CELLS]] <<INTEGER>>
4	FLOATS: Epk Eacc Hpk Eacc Kapa	[[EPK_EACC]] <<FLOAT>> (units) [[HPK_EACC]] <<FLOAT>> (units) [[KAPA]] <<FLOAT>> (units)
5	Add some calculations	[[Put the higher of the two values from Epk Eacc and Hpk Eacc into Highest Level Eacc]] <<NOTE>> [[HIGHEST_LEVEL_EACC]] <<FLOAT>>

Page Break

Step-No.	Instructions	Data-Inputs

Words: 184

start | Infor for b... | Bookwalter... | Pansophy... | Adobe Drea... | CP-3LAB-TR... | P2Templa... | 3LAB-TEST... | A14-3RG-P... | 120% | 11/23/2020 11:50 AM

Page Breaks & New Tables

GEV12-DCPWR-SHNT-ASSY-R2-0.docx - Microsoft Word

Home Insert Page Layout References Mailings Review View Developer Add-Ins Acrobat Pansophy

CheckBox Float Note Select Username HoldPoint
Comment ID Radio Text YesNo SignOff
FileUpload Integer SciNot Timestamp
Entry Fields Controls Page Mods USERS CM MAG
PART IDs

Page Break

Step-No.	Instructions	
	NAME	[[USERNAME]]
	DATE	[[DATETIME]] <<TIMESTAMP>>
	SERIAL-NUMBER	[[SERIAL_NO]] <<ID>>

Page Break

Step-No.	Instructions	Data-Input
1	NOTE: ALL DOCUMENTS, SCHEMATICS, DIAGRAMS ARE ATTACHED IN THE REFERENCES COLUMN. Has module been ultra-sonic cleaned?	[[ULTRA_SONIC]] <<YESNO>>
2	Are all indicators working?	[[INDICATORS]] <<YESNO>>
3	Does reset switch work?	[[RESET_SWITCH]] <<YESNO>>
4	Does this module have a new analog block?	[[NEW_ANALOG_BLOCK]] <<YESNO>>
5	Does this module have an old analog block?	[[OLD_ANALOG_BLOCK]] <<YESNO>>
6	If module has new analog block, is there a jumper wire on P2, Pins 6 & 7 on regulator board?	[[JUMPER_WIRE]] <<YESNO>>
7	On new analog block, is there an RC circuit (2.2mF, 5K ohm) in parallel with C13?	[[RC_CIRCUIT]] <<YESNO>>
8	If module has new analog block, does it have the new microprocessor B3?	[[MICRO_PROCESSOR]] <<YESNO>>
9	Are R15 and R16 on regulator board 100K ohms?	[[REGULATOR_RESISTOR]] <<YESNO>>
10	On new analog block, are the resistor values for R14, R21, R30 and R41	[[ANALOG_BLOCK_RESISTOR_100OHM_50AMP_75AMP_375_OHM]] <<YESNO>>
11	On the 75 amp shunt modules, are the resistor values for R15 on driver board, R25, R35, R45, R55, R65, R75, R85, 1K0hm?	[[DRIVER_BOARD_RESISTOR]] <<YESNO>>
12	For the 50amp and 75amp shunt modules are the new FET connectors installed?	[[FET_CONNECTOR]] <<YESNO>>
13	Before initial calibration, make setpoint and check all voltages, make sure all stages are driving properly. (Check across R11, R21, R31, R41, R51, R61, R71, R81 on all 8 stages located on the driver board)	[[VOLTAGE_CHECK]] <<YESNO>>
14	While setpoint is initiated, is there any oscillations?	[[OSCILLATIONS]] <<YESNO>>

Page Break

Step-No.	Instructions	
15	1 st meter is reading the output of the shunt	
16	2 nd meter is hooked to TP9	
17	3 rd meter is hooked to TP4	
18	Make the setpoint zero, then take one meter and hook it to TP4 and adjust R16 to zero	
19	Place 3 rd meter on TP5 and adjust R10 to zero	
20	Looking at meter connected to TP9, adjust R10 to zero	
21	Set setpoint to full scale and adjust R15 to 5x, looking at the shunt output Full scale for 10amp is 5x Full scale for 20amp is 10x Full scale for 30amp is 10x Full scale for 75amp is 10x	
22	Adjust R4 looking at TP3 to 5x	

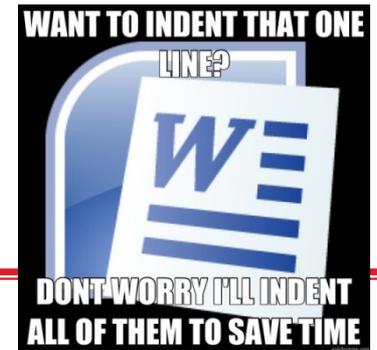
Words: 598

start | Inboxes for bookwalk... | Bookwalker, Valerie... | Pansophy_Class_Tra... | A4.JPG - Paint | Windows Explorer | Microsoft Office... | 10:59 PM

Used the PAGE MODS or Table/Insert ribbons

Be sure to put a hard page break where you want the "web page" to end.

Traveler Editing (MSWord)



Do's

- Do Keep the pages from being too long with page breaks.
- Do place hard page breaks at the end of each page
- Do edit in WEB VIEW
- Do turn off Word Smart Tags
- Do turn on SHOW hidden characters
- Do use the NewTable button to insert a table after each page break

Don'ts

- Don't place text outside a table
- Don't place more than one table on a page (embed tables)
- Don't put extra lines/spaces
- Don't use smart quotes/tabs/spaces (turn them off)

Notes

- Hard page breaks signify the end of the display web page.
- A hard page break is required after the header page.

Authoring Topics

- Traveler Conversion Process
- Attach Traveler Template (MSWord 2010)
- MSWord 2010 Tips (Tables; Pictures; Links)
- Pansophy Ribbon
- Traveler ID**
- Traveler Header Page
- Variable Names
- Do's and Don'ts

Traveler Name/ID

Traveler naming convention

PRJ-SYS-WCA-COMP[-COMP]

- ▶ Up to 5 levels
- ▶ each level allows up to 6 characters

Level 1: Project Acronym

Level 2: System Acronym

Level 3: Work Center / Activity Acronym

Levels 4 & 5: Component Acronym

Acronym Lists: complete listing in *Appendix E*

PRJ-SYS-WCA-COMP[-COMP]

PROJECT		Project Definition (NOUN)		SYSTEM		System/Org (NOUN) (Top Level Cryomodule System / Component)		WCA		Work Center / Activity		COMPONENTS	
BES	BES 400MHz Cavity											BPIP	VBV
	STANDARD TRAVELER											COAX	VLV
STP	PROCEDURE											DGLG	VPFT
C100	12GEV CRYOMOD											DLCF	VV
C12	C12 WORK											DLWF	WINW
C50	C50 REFURBISH	ACC	ACCELERATOR									DLWN	WNCR
C50R	C50 REFURBISH	CAV	CAVITY									GTV40	WNEY
HZB	HELMHOLTZ BE	CM	CRYOMODULE									GTVC	WINW
ILC	INTERNATIONAL COLLIDER	CPR	CAVITY PAIR					ACTS	ACCEPTANCE TESTING			GTVW	WNCR
TORUS	HALL B TORUS	CST	CAVITY STRING					ASSY	ASSEMBLY			GVWF	WNEY
L2	PRODUCTION F PROJECT	CU	CRYO UNIT					CHEM	CHEMISTRY			HOME	FMAP
L2P	PROTOTYPE S II	D3	DETOURS ETC.					CLN	CLEANING			HOML	FORM
L2Q0	Q0 SECTION OF	HALLD	HALL D (OF GEV12)					CMTF	CRYOMODULE TEST FACIL			IMAG	FPFT
LCLS2	LCLS-II PROJEC (TESTING)	INJ	INJECTOR					COMM	COMMISSIONING			INAD	FPC
		INSR	INSPECTION SUMM					COOL	COOLDOWN			TUNC	FRST
		MAG	MAGNETS					DISA	DISASSEMBLY			TUNW	FPSP
		NCR	NON-CONFORMANC					FAB	FABRICATION				
		PHYS	PHYSICS					INSP	INSPECTION				
								INST	INSTALLATION				

Authoring Topics

- Traveler Conversion Process
- Attach Traveler Template (MSWord 2010)
- MSWord 2010 Tips (Tables; Pictures; Links)
- Pansophy Ribbon
- Traveler ID
- Traveler Header Page**
- Variable Names
- Do's and Don'ts

Traveler Header page Author Actions

The Traveler Header, or the first page of the traveler, numbered 0 in Pansophy, contains the traveler identification information.

While filling out the traveler header information make sure to:

- 1 Enter the date is in day-month-year format: dd-Mmm-yyyy, i.e., 27-Jun-2010
- 2 Enter the portion of the email address before the @ symbol, in the NCR email fields. Listed in this field should be anyone who needs to receive an email if an NCR is generated from this traveler.

Traveler Title	HZB-GUN-CAVITY-INSPECTION-TRAVELER			
Traveler Abstract	This traveler captures the data generated from visual and dimensional inspection of the cavity			
Traveler ID	HZB-CAV-INSP-GUN			
Traveler Revision	R3			
Traveler Author	Andrew Burrill			
Traveler Date	10-Oct-2013			
NCR Emails	aburrill,carpente,kneisel			
Approval Names	A. Burrill	B. Carpenter	P. Kneisel	
Approval Signatures				
Approval Dates	10-Oct-2013	10-Oct-2013	10-Oct-2013	
Approval Title	Author	Reviewer	Project Manager	
References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents.			
Gun1 Dimensional Inspection Drawing				
Revision Note				
R1	Initial release of this Traveler.			
R2	Addition of field probe flange heights as well as modification of inspection drawing to include flange identification			
R3	Additional measurements added to allow for better characterization of the cavity			

Traveler Header page Author Actions

- 1 List and hyperlink all documents related to this traveler in the Reference section; one document per field.
- 2 Fill in the Revision Note with changes made to the traveler in that revision. Use a new line for subsequent revisions. Do not delete R1 to use the original line for the next revision.
- 3 Make sure there is a manual page break at the end of the Header Information page. Using the Page Mods Entry Point and selecting "New Page at EOF" will provide required page break.

Traveler: Author	Andrew Burrill			
Traveler: Date	10-Oct-2013			
NCR: Emails	aburrill,carpente,kneisel			
Approval: Names	A. Burrill	B. Carpenter	P. Kneisel	
Approval: Signatures				
Approval: Dates	10-Oct-2013	10-Oct-2013	10-Oct-2013	
Approval: Title	Author	Reviewer	Project Manager	
¶				
References	List and Hyperlink all documents related to this traveler. This includes, but is not limited to: safety (THAs, SOPs, etc), drawings, procedures, and facility related documents.			
Gun 1 Dimensional Inspection Drawing				
¶				
Revision: Note				
R1	Initial release of this Traveler.			
R2	Addition of field probe flange heights as well as modification of inspection drawing to include flange identification			
R3	Additional measurements added to allow for better characterization of the cavity			

Traveler Header Page



Do's

- Do fill in all areas
- Do give a descriptive Title
- Do verify Traveler Id against Acronym Master Listing (ask for assistance)
- Do put at least on NCR email name, use JLab user names (max 8 characters)
- Do put a comma separated list, no spaces, for multiple NCR email names
- Do put REFERENCE documents, with links, including safety documents, procedures and drawings
- Do put all dates in the Date Format day-mon-year DD-MMM-YYYY 15-Jan-2015
- Do document changes between revisions; each revision MUST have a revision comment

Don'ts

- Don't put data entry points on header page
- Don't FORMAT header page (no bold, colors, etc.)

Notes

- Reference documents should be in DocuShare, ENGR document repository on the M:drive, no personal computer drives

Authoring Topics

- Traveler Conversion Process
- Attach Traveler Template (MSWord 2010)
- MSWord 2010 Tips (Tables; Pictures; Links)
- Pansophy Ribbon
- Traveler ID
- Traveler Header Page
- Variable Names**
- Do's and Don'ts

FieldNames (or VarNames)

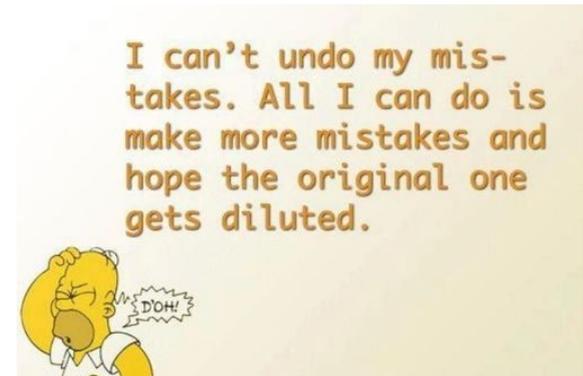
[[FieldNames]] found in Entry Codes will become the “**display**” name and the “**database**” name for the variable.



- ▶ Must be **unique** within the traveler
 - Use numbers to distinguish between common components (Cavity1, Cavity2, ...)
- ▶ Letters, numbers, underscores ONLY!
 - **Camel Case** is preferred [[ThisIsAValidFieldName]]
 - Underscores are allowed [[Cavity_1]] [[Cavity_2]]
- ▶ Be **specific**
- ▶ Be **descriptive**. [[Technician]]1 does not explain what step is being completed; [[VacuumTech]] is more descriptive.

Authoring Topics

- ❑ Traveler Conversion Process
- ❑ Attach Traveler Template (MSWord 2010)
- ❑ MSWord 2010 Tips (Tables; Pictures; Links)
- ❑ Pansophy Ribbon
- ❑ Traveler ID
- ❑ Traveler Header Page
- ❑ Variable Names
- ❑ **Do's and Don'ts**



More pics on www.LeFunny.net

Traveler Writing (SNs & Entry Fields)

Do'

- Do have at least one input per page
- Do use at least one Serial Number on page 1
- Do use Serial Numbers from the **SN Acronym listing**
- Do use user-defined radio buttons & pull-down menus where appropriate (reduces typing errors and enhanced searchability)

Don'ts

- Don't put more than one entry field on a line (stack vertically or separate with cells)
- Don't change FIELDTYPE between greater-than / less-than characters <<FIELDTYPE>> ex. <<FLOAT>>



Notes

- If a part does not have an acronym on the SN master list, **please email request to pansophy@jlab.org**
- The first SN on page 1 will be used at the identifying SN for the traveler
- A Complete list of SNs can be found in ***Appendix C***

Traveler [[FIELDNAMES]]

Important!

Do's

- Do change [[FIELDNAME]] to a **unique, specific and meaningful entry point name** (variable name)
- Do maintain consistency, comprehensibility, and searchability when creating [[FIELDNAME]]
- Do use CamelCase for [[FIELDNAME]] ex LeakTestInitial, VisualSapphirePass
- Do use only letters, numbers, and underscores in the field name
- Do use unique event-describing [[FIELDNAME]] ex: [[WeldTech]] better than [[Tech1]]

Can you find the
the mistake?

1 2 3 4 5 6 7 8 9

Don'ts

- **Don't format [[FIELDNAME]]** no sub/sup scripts, italics, colors
- Don't start [[FIELDNAME]] with number
- Don't use more than 30 characters for a [[FIELDNAME]]
- Don't use Oracle Database Reserved Words for [[FIELDNAME]] (see *Appendix E*)
- Don't use spaces, special characters except underscore (_) in [[FIELDNAME]]

Authors to do list

Let's eat grandma!



Let's eat, grandma!

**PUNCTUATION
SAVES LIVES!**

**Do ask for assistance
when you need it!**

Do use

- ❖ the User Guides
- ❖ Traveler and Document Control Procedures
- ❖ These Training slides and Appendices

Appendices

- A. Data Mining: Reports & Queries
- B. The Pansophy Entry Codes (Input Types)
- C. The Serial Number Acronyms (SNs)
- D. The Traveler / Procedure Acronym Listing
- E. Oracle Reserved Words Do not use for
[[FIELDNAMES]]

Appendix A

»» Data Mining : Reports & Queries

Data Mining Menu (Reports)

The screenshot shows the Pansophy web interface. At the top left is the Pansophy logo with the tagline "A System of Universal Knowledge". At the top right, a status bar indicates "you have been authenticated" with links for "who am i" and "click here to logout". Below this is a navigation menu with items: MAIN MENU, DATAMINE MENU ->, QUERIES, REPORTS (highlighted), SRF REPORTS, 12 GeV REPORTS, C50 DRILLDOWN, and CLOSED PRJ. On the left side, under "Select a Project:", there is a dropdown menu with options: -Select-, BES, C100, C50R, and F100. The central "REPORTS" menu is expanded, listing various report types such as TRAVELERs (OP/CL), TRAVELERs BY PROJECT OP/CL, TRAVELERs BY WORKCENTER, TRAVELER WEEKLY REPORT, NCRs (OP/CL), NCRs BY PROJECT (Op/Cl), NCRs BY WORKCENTERS, NCR CLASSIFICATION (TRAVELER), NCR CLASSIFICATION (PROJECT), D3s (OP/CL), D3s BY PROJ OP/CL, D3s BY WORKCENTERS, D3 CLASSIFICATION (TRAVELER), D3 CLASSIFICATION (PROJECT), and TRAVELER & PROCEDURE QM. On the right side, the "DATAMINE" section is visible.

TRAVELERs (OP/CL)

Select a Project:
 -Select-
 BES
 C100
 C50R
 F100

Select a Traveler:
 C100-CAV-RFIN
 C100-CAV-RWRK-WGD
 C100-CAV-THKN
 C100-CAV-TUNE
 C100-CAV-VTA-COOL

Status: **Open** or **Closed**

Dates: **On or After** **Before**

Export results to
 Excel PDF

trav_seq_num	CAVSN	D3	NCR
1	C100-1		
4	C100-RI-002		
5	C100-RI-003		
6	C100-RI-004	7	
6	C100-RI-004	8	
7	C100-RI-005		
8	C100-RI-006		
9	C100-RI-006		
10	C100-RI-008		
11	C100-RI-008		231
12	C100-RI-007		
13	C100-RI-005	29	252

Links to Travelers/NCRs/D3s

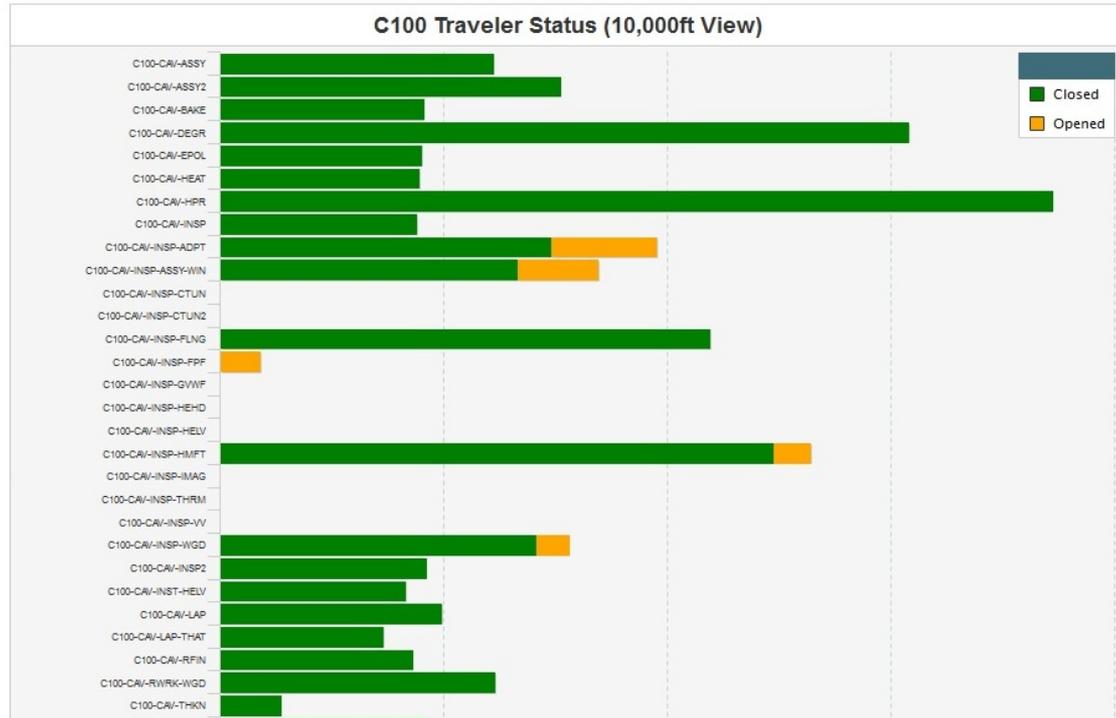
General View: Lists all instantiations and open/close stats for the selected traveler

TRAVELERs BY PROJECT OP/CL

Select a Project:

- BES
- C100
- C50R
- F100
- GEV12

Link	Opened	Closed
C100-CAV-ASSY		122
C100-CAV-ASSY2		152
C100-CAV-BAKE		91
C100-CAV-DEGR		308
C100-CAV-EPOL		90
C100-CAV-HEAT		89
C100-CAV-HPR		372
C100-CAV-INSP		88
C100-CAV-INSP-ADPT	47	148
C100-CAV-INSP-ASSY-WIN	36	133
C100-CAV-INSP-CTUN		
C100-CAV-INSP-CTUN2		
C100-CAV-INSP-FLNG		219
C100-CAV-INSP-PPF	18	
C100-CAV-INSP-GVWF		
C100-CAV-INSP-HEHD		
C100-CAV-INSP-HELV		
C100-CAV-INSP-HMFT	17	247
C100-CAV-INSP-IMAG		
C100-CAV-INSP-THRM		
C100-CAV-INSP-VV		
C100-CAV-INSP-WGD	15	141
C100-CAV-INSP2		92
C100-CAV-INST-HELV		83
C100-CAV-LAP		00



Project Management : Traveler view of open/close and number of instantiations.
Drill down to Traveler Query

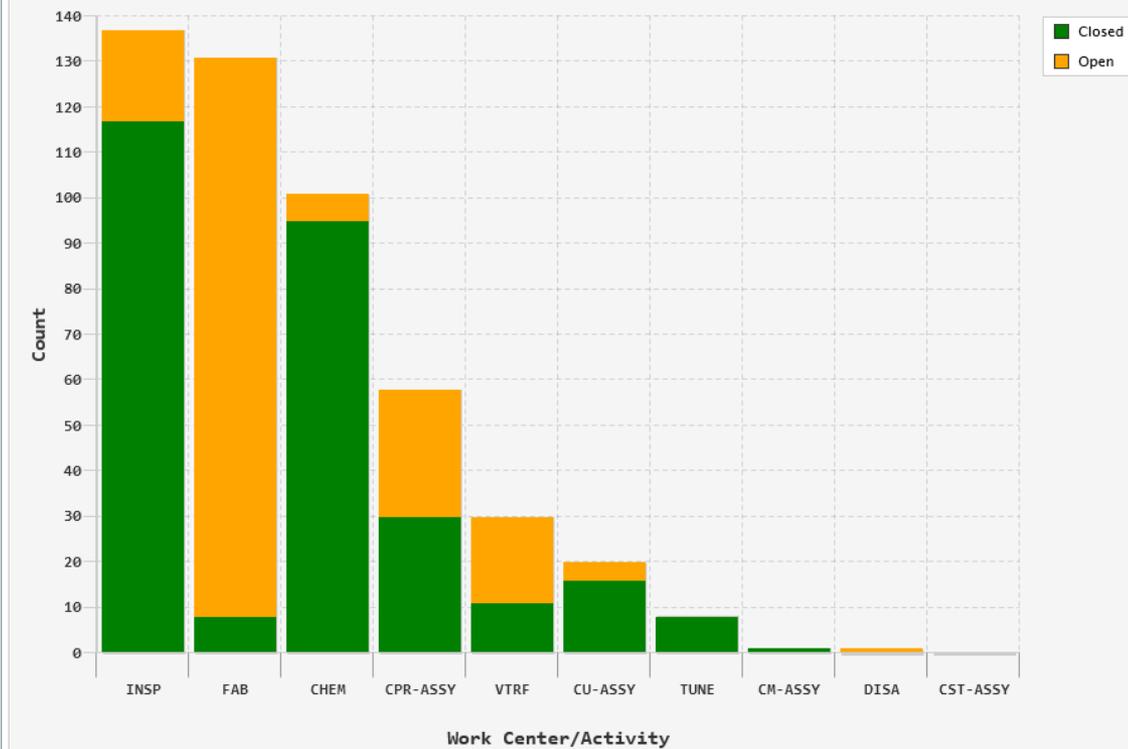
TRAVELERS BY WORKCENTER

DATAMINE

Work Center TRAV Status

Project: C50R

C50R-TRAVs (Updated: 14 Jan 2015, 11:14)



C50R TRAV Report Summary			
Area	Open	Closed	Total
INSP	20	117	137
FAB	123	8	131
CHEM	6	95	101
CPR-ASSY	28	30	58
VTRF	19	11	30
CU-ASSY	4	16	20
TUNE	0	8	8
CM-ASSY	0	1	1
DISA	1	0	1
CST-ASSY	0	0	0

TRAVELER WEEKLY REPORT

OPEN Travelers

Weekly Traveler Report -- 12-Dec-2014									
Travelers OPENED/CLOSED since 05-Dec-2014									
SeqNum	TravID	Rev	OpenWho	OpenDate	Status	CloseWho	CloseDate	D3ID	NCRID
Project: C50R (OPEN)									
Project: C50R (CLOSED)									
Project: L2P (OPEN)									
Project: L2P (CLOSED)									
Project: L2 (OPEN)									
18	L2Q0-CAV-ASSY1	R1	DREYFUSS	05-Dec-2014	n				
19	L2Q0-CAV-ASSY1	R1	DREYFUSS	05-Dec-2014	n				
Project: L2 (CLOSED)									
Project: STP (OPEN)									
84	STP-CAV-VTRF	R1	ARI	08-Dec-2014	n				
85	STP-CAV-VTRF	R1	GRIGORY	10-Dec-2014	n				
86	STP-CAV-VTRF	R1	GRIGORY	10-Dec-2014	n				
87	STP-CAV-VTRF	R1	GRIGORY	10-Dec-2014	n				
Project: STP (CLOSED)									
Project: TORUS (OPEN)									
Project: TORUS (CLOSED)									
1	TORUS-MAG-PREP-CCM	R3	FISCHER	15-Nov-2014	y	FISCHER	05-Dec-2014	F100	

Traveler Weekly Report							
Opened/Closed this week				Accumulative Totals			
Project	Week Opened	Week Closed	% Open	Total Open	% Closed	Total Closed	Total Trav
C50R	0	0	38.91%	221	61.09%	347	568
L2P	0	0	100.00%	16	0.00%	0	16
L2	2	0	89.66%	52	10.34%	6	58
STP	4	0	82.35%	84	17.65%	18	102
TORUS	0	1	75.00%	24	25.00%	8	32
HZB	1	0	97.62%	41	2.38%	1	42
QCM	3	1	86.27%	44	13.73%	7	51
L2Q0	2	1	85.71%	36	14.29%	6	42
C100	0	0	0.34%	21	99.66%	6239	6260
F100	0	2	0.00%	0	100.00%	458	458

List of travelers, by project, that have been opened or closed in the past week.

Also provides statistics on TOTALs by project.

NCRs (OP/CL)

Select a Project:

-Select-
 BES
 C100
 C50R
 F100

Select an NCR Report:

C100-CAV-NCR
 C100-NCR

Status:

All
 Open
 Closed

TravelerId

SelectAll

Export results to

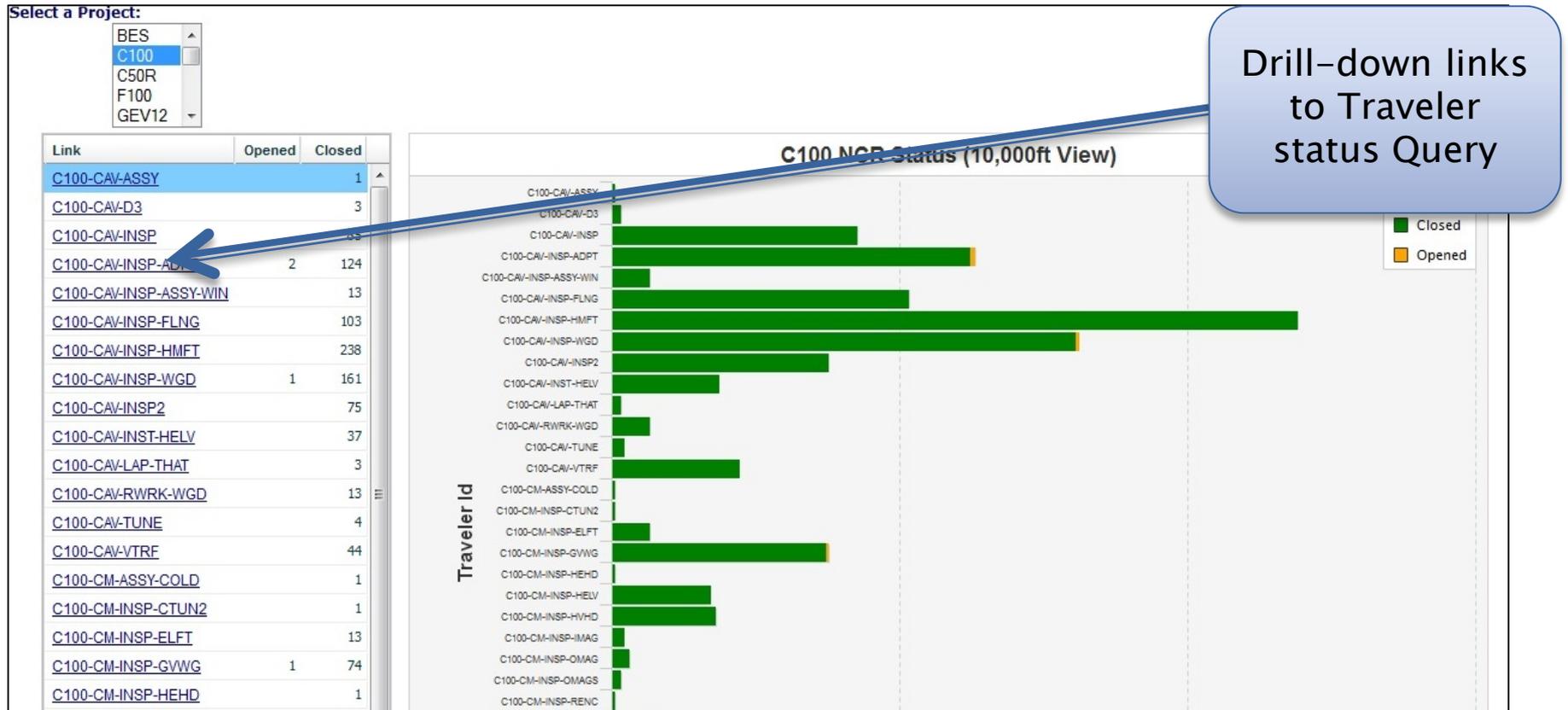
Excel
 PDF

Percent Closed

100

ncr_seq_num	partdescription	describecomment	disposition	trav_seq_num	travelerid	SN	finaldisposition
9	C100 Waveguide	O-ring groove width is out of tolerance.	Use As Is	20	C100-CAV-INSP-WGD	F063951/01	
10	C100 Waveguide	Surface finish, bolt hole location, and o-ring groove width are all out of toler	Modify	27	C100-CAV-INSP-WGD	F063951/06	
11	C100 Waveguide	O-ring groove width is out of tolerance. Scratches on both flanges must be fixed	Modify	17	C100-CAV-INSP-WGD	F061359/08	
12	C100 Waveguide	Bellows has severe damage.	Scrap	22	C100-CAV-INSP-WGD	F063951/03	
13	C100 Waveguide	Burrs on large flange. O-ring groove depth and o-ring groove width are out of to	Modify	19	C100-CAV-INSP-WGD	F063952-03	
14	C100 Waveguide	O-ring groove depth and o-ring groove width are out of tolerance. Scratches on b	Use As Is	24	C100-CAV-INSP-WGD	F063951-07	
15	C100 Waveguide	O-ring groove width is out of tolerance. Scratches need repair on both flanges.	Modify	29	C100-CAV-INSP-WGD	F063951-04	
16	C100 Waveguide	O-ring groove depth and surface finish out of tolerance	Use As Is	28	C100-CAV-INSP-WGD	F063951-02	
18	C100 Waveguide	Burrs and rough edges on knife edge and o-ring groove. O-ring groove width is ou	Modify	21	C100-CAV-INSP-WGD	F063952-02	
19	C100 Waveguide	Two bolt holes diameter oversized on inner pattern of flange. Scratches on small	Return To Vendor	26	C100-CAV-INSP-WGD	F063952-01	
20	C100 Waveguide	O-ring groove depth is out of tolerance. Nick on o-ring groove. Scratches on sm	Modify	13	C100-CAV-INSP-WGD	F061359-12	

NCRs BY PROJECT (Op/Cl)



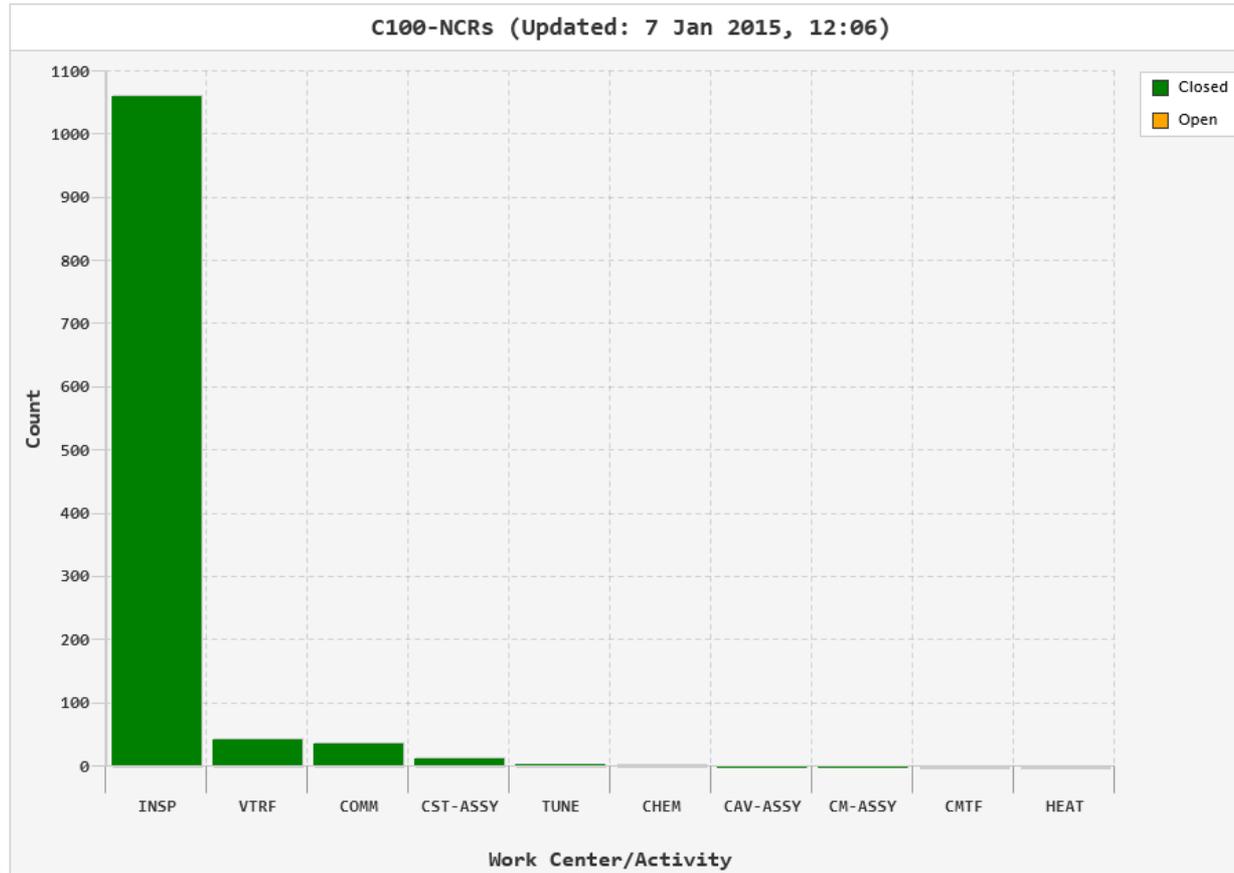
Drill-down links to Traveler status Query

- Visual Status of NCRs (open/close, numbers)
- Listing of NCRs by Traveler ID
- Helps Prioritize Traveler/Components with the most issues
- Typically found with inspections, but any traveler can apply a NCR

NCRs BY WORKCENTERS

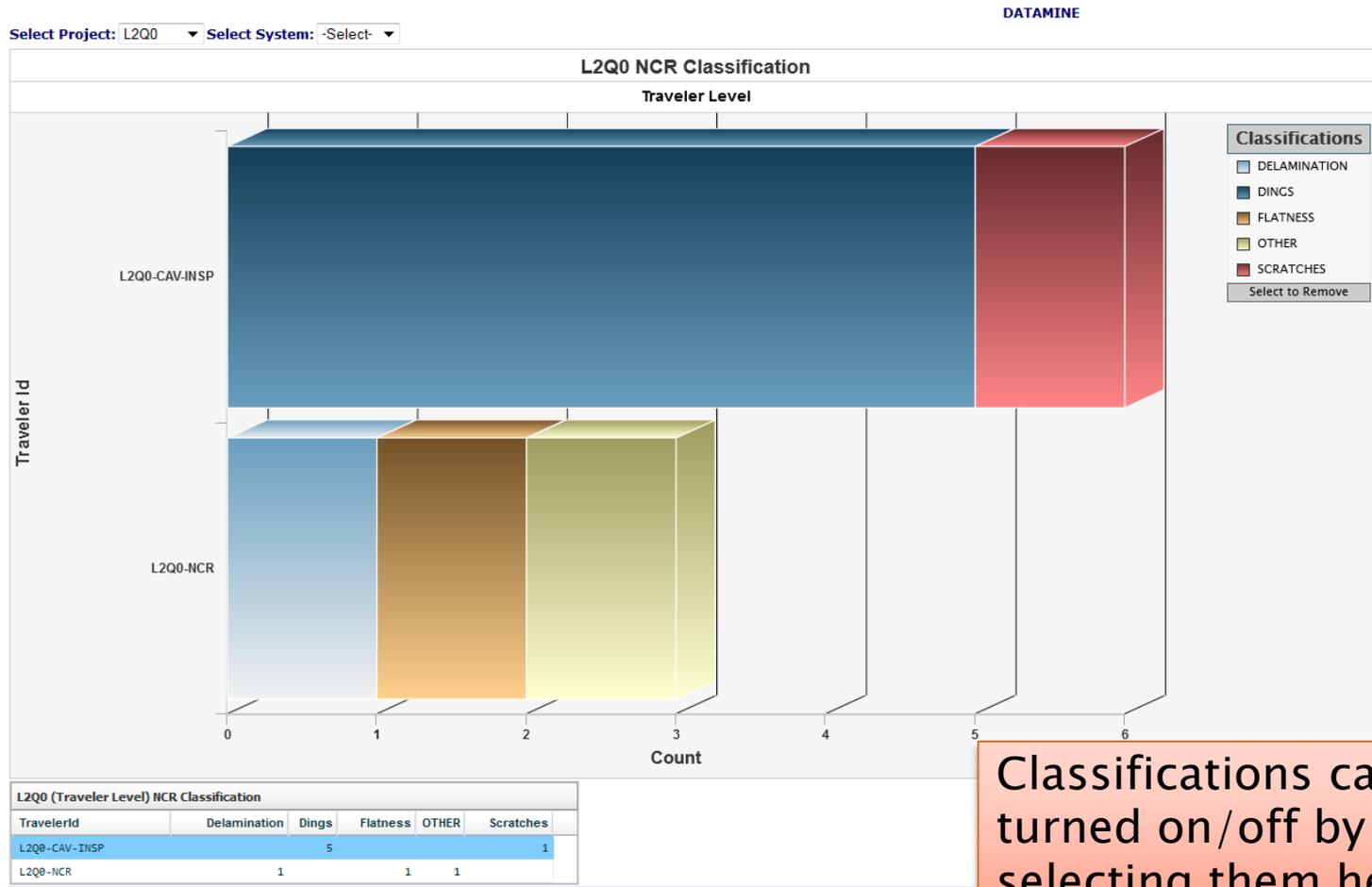
Work Center NCR Status

Project: C100



Area	Open	Closed	Total
INSP	0	1062	1062
VTRF	0	44	44
COMM	0	37	37
CST-ASSY	0	13	13
TUNE	0	4	4
CHEM	0	3	3
CAV-ASSY	0	1	1
CM-ASSY	0	1	1
CMTF	0	0	0
HEAT	0	0	0

NCR CLASSIFICATION (TRAVELER)



Classifications can be turned on/off by selecting them here

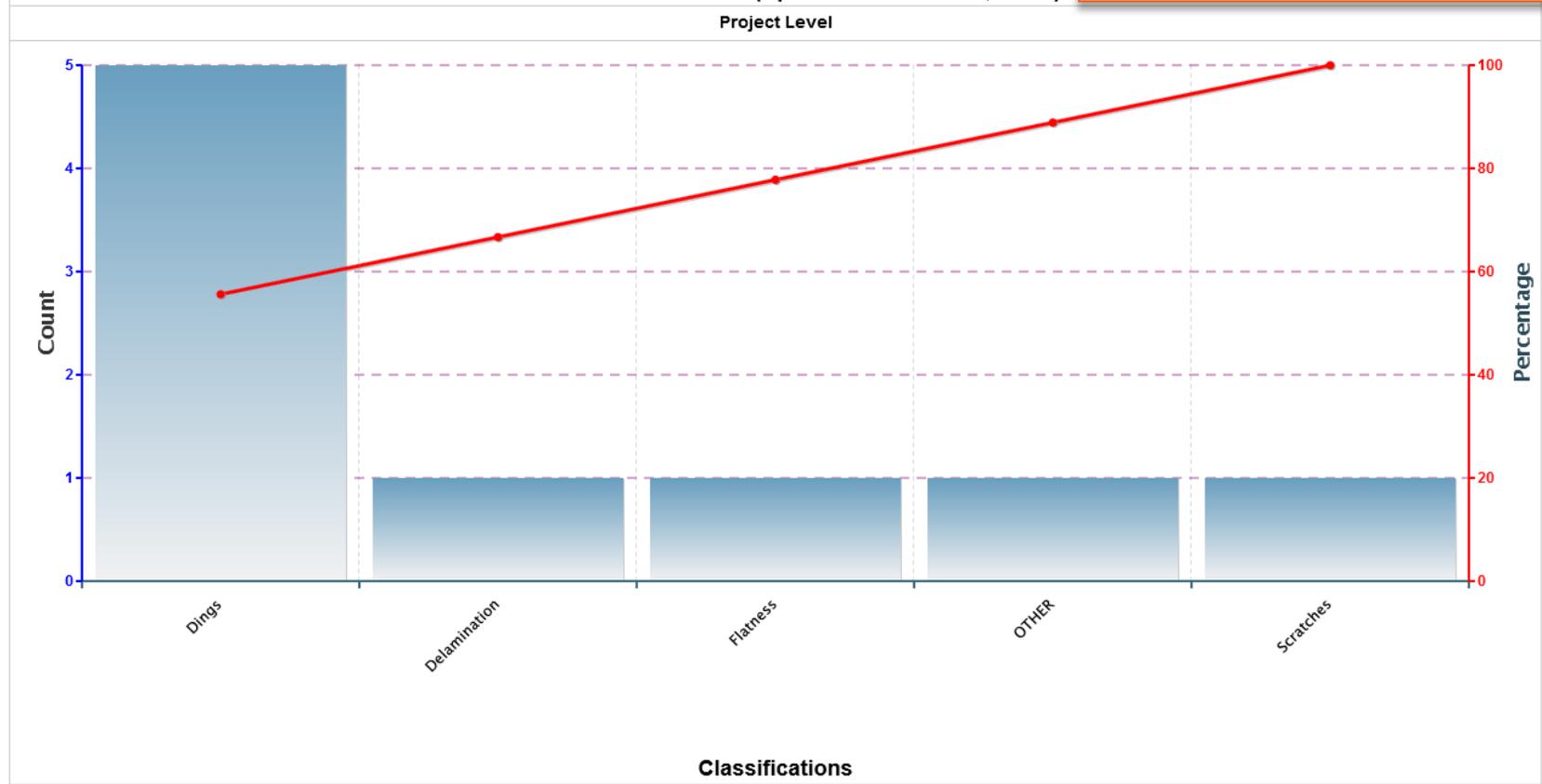
NCR CLASSIFICATION (PROJECT)

Select Project: L2Q0

L2Q0-NCR Classification (Updated: 14 Jan 2015, 10:41)

Project Level

Classifications are order from greatest to least



D3s (OP/CL)

- 1 Links to D3s
- 2 Links to Travelers
- 3 Green = Closed / Orange = Open
- 4 Filters (select menus)
- 5 Sorting (select column header)

Select a Project:
 -Select
 BES
C100
 C50R
 F100

Select a D3 Report:
 C100-CAV-D3
 C100-D3

Open/Closed - Status

D3 Classification: Select All

TravelerId: Select All

Dates: All

On or After: [Calendar Icon]

Before: [Calendar Icon]

Export results to: Excel PDF

Percent Closed: 100

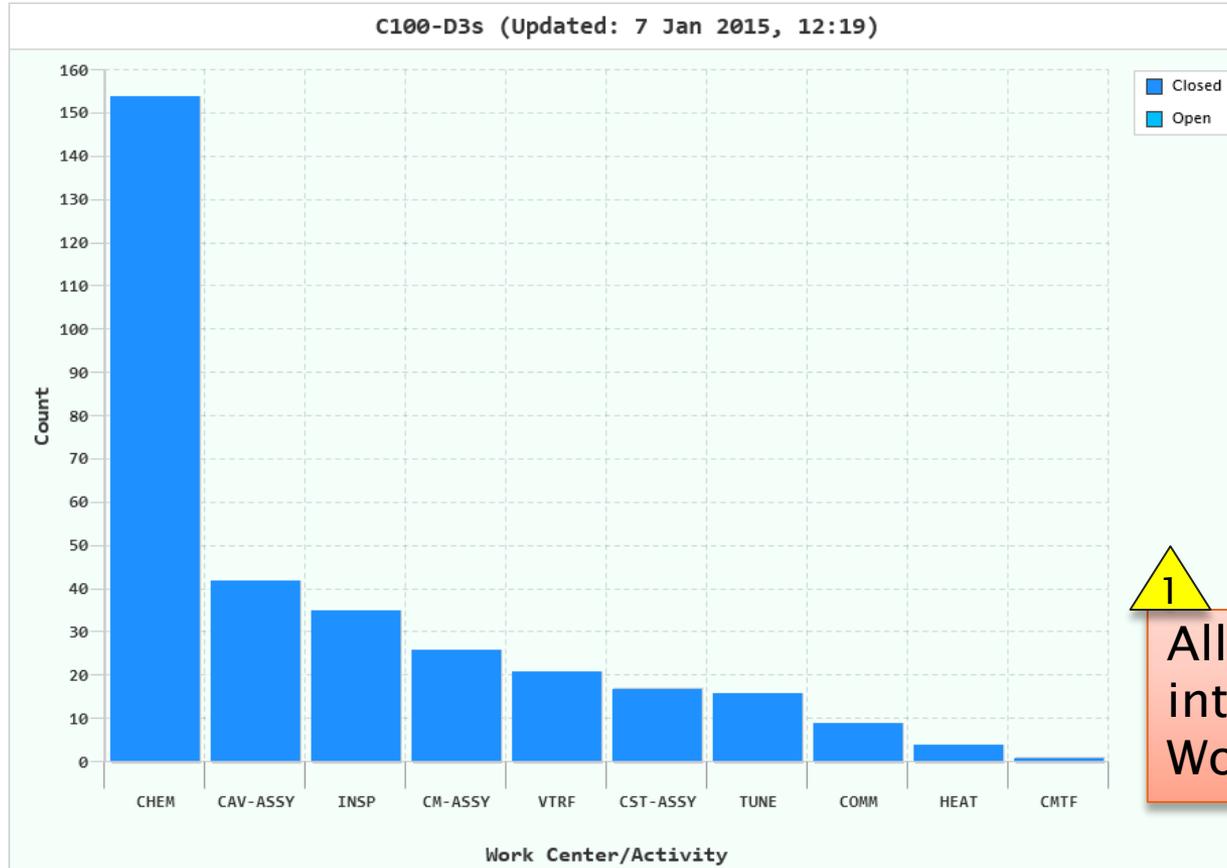
d3_seq_num	SerialID	d3classification	travelerid	trav_seq_num
2	C100_RI_002	EP	C100-CAV-EPOL	2
3	C100_RI_003	EP	C100-CAV-EPOL	3
4	C100_RI_003	HPR	C100-CAV-EPOL	4
5	C100_RI_005	EP	C100-CAV-EPOL	6
7	C100_RI_004	LEAK	C100-CAV-VTRF	6
8	C100_RI_004	LEAK	C100-CAV-VTRF	6
9	C100_RI_008	LEAK	C100-CAV-ASSY2	10
10	C100_RI_009	EP	C100-CAV-EPOL	10
11	C100_RI_011	EP	C100-CAV-EPOL	12
13	C100_RI_008	OTHER	C100-CAV-ASSY2	11
14	C100_RI_008	DISCREPANCIES	C100-CAV-ASSY2	11
15	C100_RI_007	HPR	C100-CAV-HPR	21
16	F067763-20	DISCREPANCIES	C100-CAV-INSP-WGD	52
19	C100_RI_007	EP	C100-CAV-EPOL	14
20	C100_RI_007	EP	C100-CAV-EPOL	14
22	F067764/02	BCP	C100-CAV-INSP-WGD	52
25	C100_RI_007	DEVIATIONS	C100-CAV-TUNE	14
28	C100_RI_007	WELDING	C100-CAV-INSP2	14
29	C100_RI_005	RF_TEST_ABORTED	C100-CAV-VTRF	14
30	C100_RI_011	BCP	C100-CAV-VTRF	14
31	C100_RI_003	HPR	C100-CAV-HPR	14
32	C100_RI_012	HPR	C100-CAV-HPR	14
33	C100 RI 008	HPR	C100-CAV-HPR	14

These options are available on most reports.

D3s BY WORKCENTERS

Work Center D3 Status

Project: C100

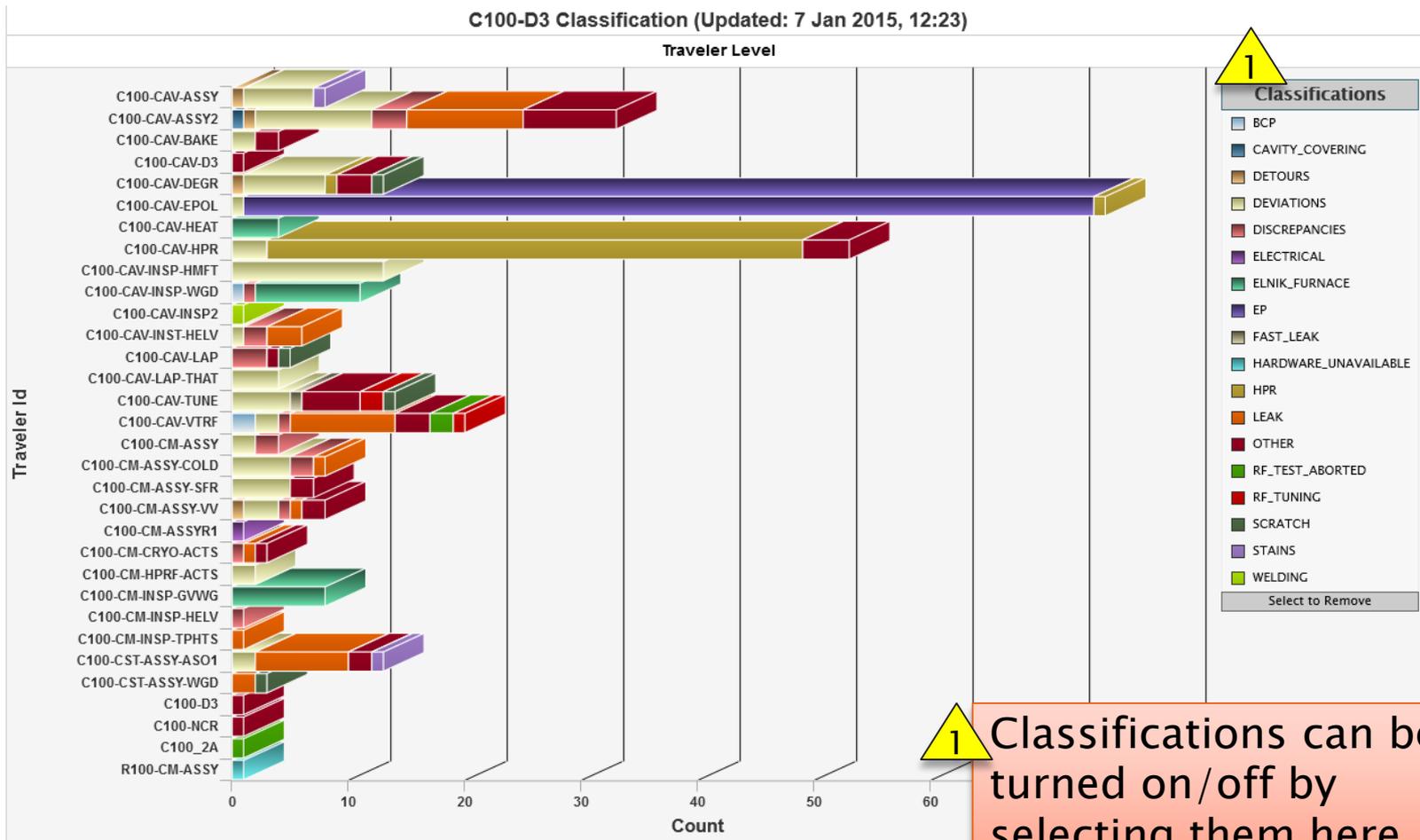


Area	Open	Closed	Total
CHEM	0	154	154
CAV-ASSY	0	42	42
INSP	0	35	35
CM-ASSY	0	26	26
VTRF	0	21	21
CST-ASSY	0	17	17
TUNE	0	16	16
COMM	0	9	9
HEAT	0	4	4
CMTF	0	1	1



All Travelers are placed into "buckets" based on WorkCenters.

D3 CLASSIFICATION (TRAVELER)



D3 CLASSIFICATION (PROJECT)

DATAMINE

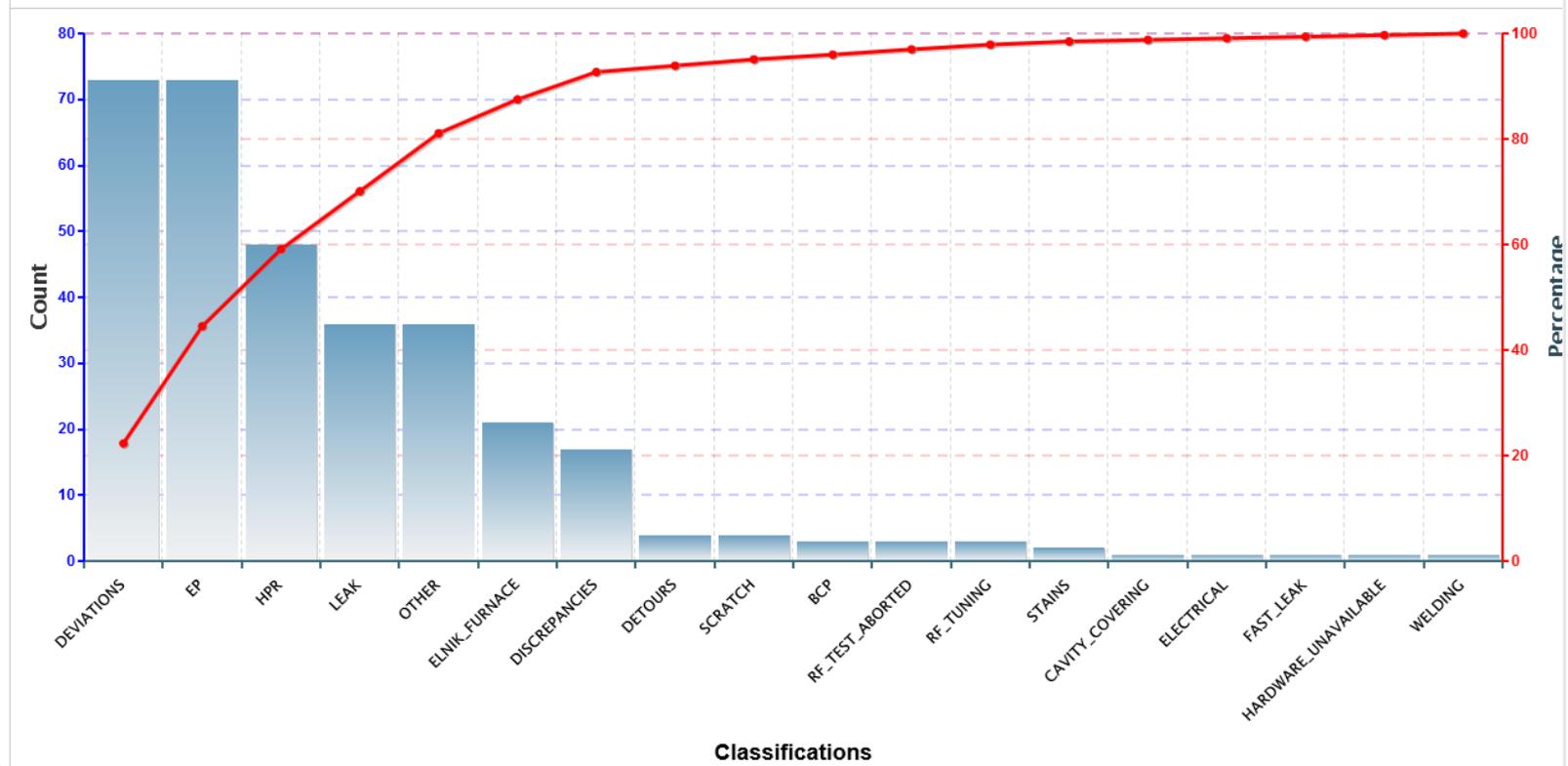
Classifications are order from greatest to least

Select a Project:

C100

C100-D3 Classification (Updated: 7 Jan 2015, 12:24)

Project Level



Traveler/Procedure QM (TP QM)

Report for
C100

Select Doc Type: TRAV PROC

Dates: All

On or After

Before

Export results to:

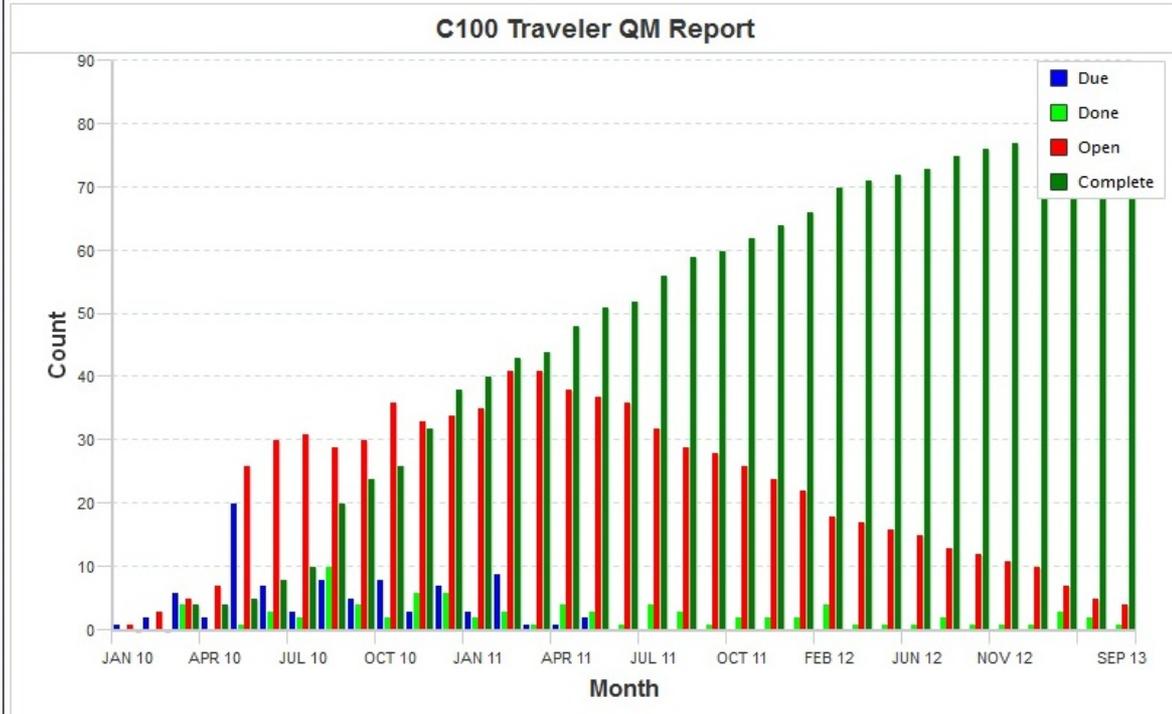
TITLE	ID	AUTHOR	REVIEWER	MANAGER	DRAFT DUE	FINAL DUE	DRAFT DONE	FINAL DONE
C100 Cavity Assembly	C100-CAV-ASSY	Castagnola	Macha	Hogan	04/07/10	05/07/10	05/13/11	05/18/11
C100 Cavity Assembly, Evacuation, and Leak Test	C100-CAV-ASSY2	Castagnola	Macha	Hogan	06/08/10	06/10/10	05/04/11	04/29/11
C100 Cavity Bake-Out	C100-CAV-BAKE	Macha	Davis	Hogan	04/07/10	05/07/10	05/12/10	05/16/11
C100 cavity BCP	C100-CAV-CHEM	Harris	Reilly	Hogan	04/07/10	05/07/10	06/07/10	06/10/10
D3s for CAVITY processing	C100-CAV-D3	Bookwalter	Leung	McEwen	01/15/10	03/09/10	04/26/10	04/25/12
C100 cavity Degreasing	C100-CAV-DEGR	Williams	Reilly	Hogan	04/07/10	05/07/10	06/07/10	12/06/10
C100 cavity EP	C100-CAV-EPOL	Davenport	Reilly	Hogan	04/07/10	05/07/10	04/08/11	04/26/11
C100 Cavity Heat Treatment	C100-CAV-HEAT	Forehand	Reilly	Hogan	04/07/10	05/07/10	03/15/11	10/11/11
C100 cavity HPR	C100-CAV-HPR	Tipton	Reilly	Hogan	04/07/10	05/07/10	06/07/10	04/20/11
C100 Cavity CMM Receiving Inspection	C100-CAV-INSP	Carpenter	Marhauser	Hogan	04/07/10	05/07/10	06/11/10	08/03/10
C100 Ceramic Window Adapter Receiving Inspection	C100-CAV-INSP-ADPT	Park	Wiseman	Hogan	06/19/10	07/19/10	07/27/10	08/27/10
C100 Ceramic Window Receiving Inspection	C100-CAV-INSP-ASSY-WIN	Park	Wiseman	Hogan	06/19/10	07/19/10	10/01/10	11/17/10
C100 Cold Tuner Receiving Inspection	C100-CAV-INSP-CTUN	Matalevich			02/15/10	03/09/10	03/17/10	08/10/10
C100 Cold Tuner Expanded Inspection	C100-CAV-INSP-CTUN2	Matalevich			02/25/10	03/17/10	03/17/10	06/08/10
C100 Ceramic Window Flange Receiving Inspection	C100-CAV-INSP-FLNG	Park	Wiseman	Hogan	06/19/10	07/19/10	08/05/10	01/06/11
C100 Cavity Field Probe Feedthru Receiving Inspection	C100-CAV-INSP-FPF	Macha	Carpenter	Hogan	05/02/10	06/01/10	07/07/10	08/02/10
C100 Guard Vacuum Waveguide Flange Receiving Inspection Traveler	C100-CAV-INSP-GVWF	Wilson			09/01/10	09/09/10	01/18/11	09/09/10
Receiving Inspection of 12GeV Upgrade Cryomodule Cryogenic Circuit Components	C100-CAV-INSP-HEHD	Cheng			01/27/10	03/30/10	03/26/10	05/14/10
C100 Helium Vessel Receiving Inspection	C100-CAV-INSP-HELV	Cheng	Fischer	Hogan	04/15/10	05/15/10	06/21/10	07/26/10
C100 CavityHOM Feedthru Receiving Inspection	C100-CAV-INSP-HMFT	Park	Wiseman	Hogan	05/02/10	06/01/10	08/26/10	08/05/10
Receiving Inspection of 12GeV Upgrade Cryomodule Inner Magnetic Shield	C100-CAV-INSP-IMAG	Cheng			07/19/10	08/19/10	08/13/10	08/20/10
Receiving Inspection of 12GeV Upgrade Cryomodule 50K Thermal Shield Components	C100-CAV-INSP-THRM	Smith			02/24/10	04/14/10	04/15/10	08/06/10
Receiving Inspection of 12GeV Upgrade Cryomodule Vacuum Vessel	C100-CAV-INSP-VV	Cheng			03/26/10	06/09/10	06/02/10	06/09/10

Detailed grid layout of Travelers/Procedure for QA tracking and management.

Traveler/Procedure QM (TP QM)

Return to GRID

MONTH	DUE	DONE	OPEN	COMPLETE
JAN 10	1		1	0
FEB 10	2		3	0
MAR 10	6	4	5	4
APR 10	2		7	4
MAY 10	20	1	26	5
JUN 10	7	3	30	8
JUL 10	3	2	31	10
AUG 10	8	10	29	20
SEP 10	5	4	30	24
OCT 10	8	2	36	26
NOV 10	3	6	33	32
DEC 10	7	6	34	38
JAN 11	3	2	35	40
FEB 11	9	3	41	43
MAR 11	1	1	41	44
APR 11	1	4	38	48
MAY 11	2	3	37	51
JUN 11		1	36	52
JUL 11		4	32	56
AUG 11		3	29	59
SEP 11		1	28	60
OCT 11		2	26	62
NOV 11		2	24	64
DEC 11		2	22	66
FEB 12		4	18	70
APR 12		1	17	71
MAY 12		1	16	72
JUN 12		1	15	73
JUL 12		2	13	75



- Traveler and Procedure writing tracking graph.
- Shows how many need to be written, when and number complete

Data Mining Menu (Queries)

The screenshot displays the Pansophy web application interface. At the top left is the Pansophy logo with the tagline "A System of Universal Knowledge". On the top right, a notification box states "you have been authenticated" with links for "who am i" and "click here to logout". A horizontal navigation bar contains the following menu items: MAIN MENU, DATAMINE MENU ->, QUERIES, REPORTS, SRF REPORTS, 12 GeV REPORTS, C50 DRILLDOWN, and CLOSED PRJ. The "QUERIES" menu is expanded, showing a list of options: SERIAL NUMBER SEARCH, CAVITY PERFORMANCE, USER CANNED REPORT, VARGRID, and USER DEFINED. On the left side of the main content area, there is a "Select a Project:" label above a dropdown menu with the following options: -Select-, BES, C100, C50R, and F100. The main content area is currently blank, with the word "DATAMINE" visible in the top right corner of the content area.

Serial Number (SN) Search

Select Project(s): Select a Type of Serial Number: Select the Serial Number Value(s):

BES
C100
C50R
F100
SEV12

CAVSN
CMSN
DSRFSN
ELFTSN
FPFTSN

C100-RI-049
C100-RI-050
C100-RI-051
C100-RI-052
C100-RI-053

Status: **Open** or **Closed** Dates: On or After Before Export results to Excel PDF Percent Closed 92

TRAVID	trav_seq_num	serial_number	trav_open_who	trav_open_date	trav_close_who	trav_close_date	D3	NCR
C100-CAV-INSP	59	C100-RI-052	OGLE	01/20/11	OGLE	01/24/11		307
C100-CAV-RFIN	52	C100-RI-052	OVERTONR	05/11/11	FOREHAND	09/15/11		
C100-CAV-DEGR	183	C100-RI-052	TMHARRIS	05/12/11	JDAVEN	05/12/11		
C100-CAV-HEAT	53	C100-RI-052	OVERTONR	05/24/11	FOREHAND	12/15/11		
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	147	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	156	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	157	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	158	
C100-CAV-EPOL	55	C100-RI-052	JDAVEN	06/01/11	JDAVEN	06/07/11	159	
C100-CAV-TUM	69	C100-RI-052	OVERTONR	09/08/11	FOREHAND	03/23/12		
C100-CAV-INST 2	60	C100-RI-052	OGLE	09/13/11	OGLE	09/15/11		737
C100-CAV-INST-HELV	53	C100-RI-052	MCCREA	09/14/11	FISCHER	10/26/11		770
C100-CAV-LAP	85	C100-RI-052	DANIELS	09/23/11	CARPENTE	01/04/12		
C100-CAV-DEGR	254	C100-RI-052	TMHARRIS	09/26/11	JDAVEN	10/07/11		
C100-CAV-HPR	229	C100-RI-052	TMHARRIS	09/26/11	JDAVEN	10/06/11		
C100-CAV-ASSY	82	C100-RI-052	DREYFUSS	09/27/11	CASTAGNO	12/15/11		
C100-CAV-HPR	231	C100-RI-052	FOLLKIEJ	09/27/11	JDAVEN	10/06/11		
C100-CAV-ASSY2	105	C100-RI-052	CJOYNER	09/28/11	CASTAGNO	12/19/11	245	

Select: Project, Serial Number type (i.e. CAVSN, CMSN), and Serial Number value(s) (i.e. C100-RI-002)
Display: All travelers which contain the selected values

CAVITY PERFORMANCE

Report for C100

Status: Open Closed

Select Cavity(ies):
 039
 C100-1
 C100-RI-001
 C100-RI-002
 C100-RI-003

Select String:
 C100-002
 C100-003
 C100-004
 C100-004_2
 C100-005

Dates: All On or After: Before: Export results to: Excel PDF

TRAV_SEQ_NUM	CAVSN	TESTDATE	TESTOPE...	DEWAR	DEW...	HELL...	CAVITYMEETS...	VTATSSN	LOCKFREQUEN...	RADAT20MVM	FEONSETMVM	QEXTFP	EMAXMVM
1	C100-1	06/02/10	GRENOBLE	8	2.07	false		TS28-007			20	9.90e+11	25.4
4	C100-RI-002	09/29/10	Grenoble	4	2.07	false	true	TS28-003	1496.6558	5.97	22.5	1.24e+12	27.1
5	C100-1												
6	C100-1												
7	C100-1												
8	C100-1												
9	C100-1												
10	C100-1												
11	C100-1												
12	C100-1												
13	C100-RI-005	10/18/10	KDAVIS										
17	C100-RI-005	12/02/10	GRENOBLE										
25	C100-RI-005	12/02/10	Grenoble										

Report for C100

Status: All Open Closed

Select Cavity(ies):
 C100-RI-001
 C100-RI-002
 C100-RI-003
 C100-RI-004
 C100-RI-005

Select String:
 C100-002
 C100-003
 C100-004
 C100-004_2
 C100-005

Dates: All On or After: Before: Export results to: Excel PDF

TRAV_SEQ_NUM...	CAVSN	TESTDATE	TESTOPE...	DEWAR	DEW...	HELL...	CAVITYMEETS...	VTATSSN	LOCKFREQUEN...	RADAT20MVM	FEONSETMVM	QEXTFP	EMAXMVM
4	C100-RI-002	09/29/10	Grenoble	4	2.07	false	true	TS28-003	1496.6558	5.97	22.5	1.24e+12	27.1
31	C100-RI-013	01/28/11	GRENOBLE	8	2.07	true	true	TS28-007	1496.4407			1.11e+12	14.67
32	C100-RI-015	01/26/11	KDAVIS	7	2.07	true	true	TS28-008	1496.4575			1.18e+12	27
35	C100-RI-001	02/01/11	STIRBET	8	2.07	true		TS28-001	1496.4402			5.41e+11	27
36	C100-RI-002	02/03/11	KDAVIS	4	2.07	true	true	TS28-004	1496.3874			8.82e+11	27
38	C100-RI-013	02/08/11	TRASS	8	2.07	true		TS28-009	1496.4365			1.25e+12	27.1

Select: Project → Display: All VTA cavity tests for project (pre-defined columns)

Select: CAVSN(s) → Display: All VTA cavity tests for selected CAVSN(s)

Select: CMSN → Display: All cavities for selected CMSN and all related VTA test results

USER CANNED REPORT

User pre-defines variables to be retrieved from selected traveler and displayed as a report.

St: C100-CAV-INSP-WGD

Status: **Open** or **Closed** Dates: All On or After: Before: Export results to: Excel

WGDSN	TRAV_SEQ...	RF_Tested	Dim...	LeakCheckPass...	BakingTech	Baking...	BakeOutOk	PlatingOk	RfTest...	RfTestEnd	LeakC...	Repackage...
F058824-01	2			true	forehand	07/30/09	true		08/24/09		true	
F058824-02	3			true	forehand	07/30/09	true		08/26/09		true	
F058824-03	4			true	overtonr	07/30/09	true		07/07/09		true	tmharris
F058824-04	5			true	overtonr	07/30/09	true		07/07/09		true	tmharris
F061359-04	7			true	overton	11/20/09	true	true	10/21/09		true	tmharris
F061359-07	8			true	overton	11/20/09	true	true	10/23/09		true	tmharris
F061359-09	9			true	overton	01/13/10	true	true	12/10/09		true	
F061359-10	10			true	overton	11/20/09	true	true	11/06/09		true	tmharris
F061359-05	11			true	overton	01/13/10	true	false	01/27/10		true	
F061359-13	12			true	FOREHAND	05/12/10	true	true	12/19/09		true	TMHARRIS
F061359-12	13			true	OVERTONR	05/21/10	true	true	01/28/10		true	tmharris
F061359-11	14			true	OVERTONR	01/13/10	true	false	12/14/09			
F061359-02	15			true	overton	11/20/09	true	true	11/06/09		true	tmharris
F061359-01	16			true	overton	01/13/10	true	false			true	
F061359-08	17			true	OVERTONR	01/13/10	true	true	02/22/10		true	
F063952-03	19		Janua...	true	elliott	02/24/10	true		04/20/10	April, 21 2010 10:...	true	stipton
F063951-01	20		Janua...	true	forehand	02/24/10	true	true	03/05/10	March, 07 2010 13:...	true	
F063952-02	21		Janua...	true	forehand	02/24/10	true		05/14/10	May, 14 2010 15:3...	true	stipton
F063951-03	22		Janua...	true								
F063952-04	23		Janua...	true	forehand	02/24/10	true	true	10/14/11		true	

- User Defined array of pre-selected data fields resulting in a grid report.
- Filtering and sorting is available

VARGRID

Displays ALL variables from all Versions of a traveler in grid format.

Variable Grid Query: Select Traveler C100-CAV-HPR

C100-CAV-HPR															
SEQ_NUM	CAVSN	Operator	Technician	DateAndTime	HelpRequest	ProcessStep	HeliumVessel	Cage	FrameSeated	Post1	Post2	Post3	Post4	Alignment	TopFlan
1	R100-01	JDAVEN	STIPTON	2010-06-09 18:46:00.0	No	1stAssembly			Yes					Yes	Yes
2	R100-01	STIPTON		2010-06-10 09:53:00.0	No	2ndAssembly			Yes					Yes	Yes
3	C100-RI-001	STIPTON	TMHARRIS	2010-08-03 12:00:00.0	No	2ndAssembly			Yes					Yes	Yes
4	C100-RI-002	STIPTON	DIAW	2010-08-05 10:53:00.0	No	2ndAssembly			Yes					Yes	Yes
5	C100-RI-001	JDAVEN	STIPTON	2010-09-16 16:00:00.0	No	1stAssembly			Yes					Yes	Yes
6	C100-RI-001	JDAVEN		2010-09-17 10:24:00.0	No	2ndAssembly			Yes					Yes	Yes
7	C100-RI-002	JDAVEN	STIPTON	2010-09-21 17:15:00.0	No	1stAssembly			Yes					Yes	Yes

A grid of All variables (data entry points) from a traveler
All instantiations are displayed

User Defined Query

The interface displays a list of fields on the left, each with a checkbox for selection. The fields include: CAVSN, SpecialHandling, HeliumVessel, TunerAttached, HOMsConnected, LabviewFile, TestDate, Dewar, VTATSSN, TestOperator1, TestOperator2, CavityVacuum, CavityVacuumOK, and CavityVacuumComr.

The central window, titled "User Defined Query - (C100-CAV-VTRF)", contains a table for defining the query:

VARNAME	VARTYPE	Operator	Operand
CAVSN	CAVSN	ALL	
TestDate	TIMESTAMP	ALL	
DewarTempK	FLOAT	ALL	
Qo	SCINOT	ALL	

Below the query definition table, a "Submit" button is visible. The resulting data table, titled "User Defined Query", shows the following data:

SeqNo	CAVSN	TestDate	DewarTempK	Qo	Qextfp	EmaxMVm	QoAtEmax	QoAt20MVm	Init_RadAt20MVm	Init_FEonsetMVm
1	C100-1	2010-06-02 18:34:00.0	2.07	15000000000	990000000000	25.4	11800000000	11600000000		
4	C100-RI-002	2010-09-29 00:00:00.0	2.07	19200000000	1.24E+012	27.1	9870000000	12600000000		
5	C100-RI-003	2010-10-09 00:00:00.0	2.07	12900000000	1.48E+012	27	9230000000	10400000000		
6	C100-RI-004	2010-10-14 18:25:00.0	2.07	11900000000	924000000000	32.5	8010000000	9500000000		
7	C100-RI-005	2010-10-18 00:00:00.0	2.07	13300000000	1.03E+012	27	9660000000	10800000000		
8	C100-RI-006									
9	C100-RI-006	2010-11-03 00:00:00.0	2.07	13800000000	1.32E+012	41.6	9240000000	10800000000		
10	C100-RI-008	2010-11-21								

- User selects Traveler
- and is presented with a list of all available data entry points.
- Upon selection the user can set operator and operands
- which will present user with a list of data fitting the resulting query.

Data Mining Menu (Other)

MAIN MENU	DATAMINE MENU ->	QUERIES	REPORTS	SRF REPORTS	12 GeV REPORTS	C50 DRILLDOWN	CLOSED PRJ
				STATUS BOARDS			
				CAVITY PERFORMANCE	C100 REPORT		
					C100		
					C50R		
					F100		
					R100		

MAIN MENU	DATAMINE MENU ->	QUERIES	REPORTS	SRF REPORTS	12 GeV REPORTS	C50 DRILLDOWN	CLOSED PRJ
				STATUS BOARDS		C100 CAVITY	
				CAVITY PERFORMANCE		F100 CAVITY	

C100 Cavity Status Board (ex)

REPORTS

Serial ID	INSP	RFIN	PreHeat DEGR	HEAT	THKN	PreEP DEGR	EPOL	PostEP DEGR	TUNE	HELV	LAP	1st HPR	ASSY	2nd HPR	ASSY2	BAKE	VTRF	
	C100-CAV-IN SP	C100-CAV-RFIN	C100-CAV-DEGR	C100-CAV-HEAT	C100-CAV-THKN	C100-CAV-DEGR	C100-CAV-EPOL	C100-CAV-DEGR	C100-CAV-TUNE	C100-CAV-IN ST-HELV	C100-CAV-LAP	C100-CAV-HPR	C100-CAV-A & B Y	C100-CAV-HPR	C100-CAV-A & B Y2	C100-CAV-BAKE	C100-CAV-VTRF	
C100-1		16							10 23		12 7 18						1	
C100-2																		
C100-3													55 58		62			
C100-4																		
C100-RI-001	1	1	3	1		585	2	899	2 11	13	17	582	13 27	38 83 100 115	13 29	1	235 146	
C100-RI-002	2	2	4	2	321	7	3	10 103	3 12	14	19	785	24 28	48 94 109	24 30	3	34 38	
C100-RI-003	4	3	8	3	22 4	11	4	15 20	4 13	5	8	935	5 17	10 35 52	5 18	4	5 15 24	
C100-RI-004	5	4	9	4	87	14	5	19 25 56	5 14	4	6	11 32	6 16	12 34 47	6 17 19	5	6 16 14	
C100-RI-005	7	5	12	5	5 10	18	3	23 27 54	6 15	3	4	13 29	7 15	14 33 51	7 16	3	7 13 17 25	
C100-RI-006	8	6	13	6	9 11	23	7	28 30 43 52	7 16	2	3	15 23 27	8 11 12	16 24 28 53	8 12 13	7	8 9 18	
C100-RI-007	9	7	16	7	9 12 25	24	8 14	28 34 42 55 66	8 17 25	9	5 12	17 21 30 43	9 14 21	18 31 44 49	9 15 23	8 9	12 19	
C100-RI-008	10	8	17	8	14 17	74	9 32	33 38 50 79 133	9 18 19 40 62 85	42		13 32 55	19 25 55 141 192	10 13 23 53 71	20 22 26 56 64 142 193	10 11 14 25 31 69 89	10 38	10 11 26 37 68 85
C100-RI-009	12	9	21	9	13 15	29	10	36	20 106		104	362	123	364	152	32 93	151	
C100-RI-010	11	10	22	10	18 19	32	11	39 50	21	6		38	18	40 48	20	12	21	
C100-RI-011	13	11	31	11	18 22	37	12	41 58 70	22	7	9 10	37 45	19 22	39 46 54	21 24	11	22 23	
C100-RI-012	14	17	35	12	20 23	40	13	51	24	8	11	41	20	42 50	22		20	
C100-RI-013	17	14	49	13		52	19	71 92	29	11	16	50	26	61 68 93 108	28 33	16	31 38	
C100-RI-014	18	15	53	14		57	17	78 84	26	10	14	57	24	58	26	13	30	
C100-RI-015	15	12	44	15	24 26	46	15	47 88	27	12	15	59	25	59 113	27	14	32	
C100-RI-016	38	22	69	21		57	23	91	31	17	45	139	51	140	38	36	35	
C100-RI-017	16	13	45	16		48	16	51 106 123	28	15	20 25	68 75	29 33	67 76 78 101 116	32 37	16	39 42	
C100-RI-018	19	18	58	17		75	18	77 109	30	16	21	69	30	70 95 110	34	17	40	
C100-RI-019	20	19	64	18		88	20	72 118	32	18	22	71	31	72 96 111	35	18	41	
C100-RI-020	22	20	83	19		78	21	80 119	33	19	23	73	32	74 88 97 112	36 42	19	43 46	
C100-RI-021	23	21	87	20		81	22	85 124	35	20	24	77	34	79 87 89	38 43 45	20	44 47	
C100-RI-022	24	23	82	22		90	24	95 96 128	34	21	26		35	81 88	39 44	21	45 48	
C100-RI-023	25	24	83	23		89	25	101 135	36	22	27	82 164	36 60	83 90 165	40 46 77 80	22	49 72 74	
C100-RI-024	31		145	42		41	41	155	49		46	144	58	145	74	39	57	
C100-RI-025	26	25	86	24 25	27	38	26	107 138	37	23	28	84	37	85 98	41 48	23	50 51	
C100-RI-026	27 62	45	156	44		46	46	168	55	40		150	70	191	88	47	84	
C100-RI-027	29	26	93	26		104	27	108 143	38	24	29 34 36	91 114 125	38 42 45 88	92 117 126 130 137	47 52 58 60 87 111	30	59 63	
C100-RI-028	28	27	94	27		105	28	114	39	25	30	102 103	39		49	24	52	
C100-RI-029	30	28	97	28		112	29	117 151	41	26	33	106	41	107	51 78	25	53 69	
C100-RI-030	31	29	100	29		113	30		42	27	35	118	43	119	54	27	55	
C100-RI-031	32	30	110	30		121	31	130 158 159	43	28	37 38	120	44	123	55	28	56	
C100-RI-032	33	31		31		129 131	35	111 140 149 150	44 72	41	31 58	104 194	40 50 54 72	105 124 198 208	50 53 57 65 70 91 97	29 37	54 58 87 98	
C100-RI-033	34	32	115	32			33	134 167	45	30	40	127	46	128	59	31	80	
C100-RI-043	45	41	142	41			44	163	58	36	51	181	66	183	84	44	80	
C100-RI-044	46	42	147	43			45	165	59	38	53	185 186	69	188	87	45	81	

Project management view of Cavity Processing:
Cavities to be processed (Rows)
The Processes / Travelers (Columns)

Appendix B

»» The Pansophy Entry Codes (Input Types)

The Entry Codes

Ribbon Code	Traveler Code	Definition
CHECKBOX	[[FieldName]] <<CHECKBOX>>	Creates a check box that indicates the answer to a question is “yes”.
COMMENT	[[FieldName]] <<COMMENT>>	Allows you to collect comments in a large input box.
FILEUPLOAD	[[FieldName]] <<FILEUPLOAD>>	Allows you to upload any type of file to the server. File name must contain ONLY Letters, Numbers and Underscores.
FLOAT	[[FieldName]] <<FLOAT>>	Creates an input box that accepts numbers containing a decimal point (ex: .05872, 158.23).
SN	[[FieldName]] <<SN>>	Provides a text box that accepts serial numbers (allows for both letters and numbers).
INTEGER	[[FieldName]] <<INTEGER>>	Creates an input box that accepts whole numbers only.
NOTE	[[FieldName]] <<NOTE>>	Use to alert programmers to special traveler requirements (ex: calculations)

The Entry Codes(cont.)

Ribbon Code	Traveler Code	Definition
RADIO	[[FieldName]] {{CHOICE1,CHOICE2,CHOICE3}} <<RADIO>>	Creates a series of Radio Buttons (only one can be selected) based on the author supplied list of choices.
SCINOT	[[FieldName]] <<SCINOT>>	Allows for the input of numbers in scientific notation.
SELECT	[[FieldName]] {{CHOICE1,CHOICE2,CHOICE3}} <<SELECT>>	Creates a author defined pull-down menu. Author must list the input values and labels to be placed on the pull-down menu.
TEXT	[[FieldName]] <<TEXT>>	Creates an input box for text entries.
TIMESTAMP	[[FieldName]] <<TIMESTAMP>>	Provides an input box which accepts Date and Time. Also supplies a button "Now" which will automatically enter the current date and time.
USERNAME	[[FieldName]] <<USERNAME>>	Provides an input box for a person's name.
YESNO	[[FieldName]] <<YESNO>>	Creates radio buttons that answer a yes/no question.

The Entry Codes (User Sets)

Ribbon Code	Traveler Code	Definition
SRF_CMP	[[SRFCMP_FIELDNAME]] <<SRFCMP>>	SRF Cryomodule User Set
SRF_CVP	[[SRFCVP_FIELDNAME]] <<SRFCVP>>	SRF Cavity User Set
SRF_FAB	[[SRFFAB_FIELDNAME]] <<SRFFAB>>	SRF Fabrication User Set
MAG_USERS	[[MAGUSERS_FIELDNAME]] <<MAGUSERS>>	Magnet User Set

The Entry Codes(SN's Menus)

Ribbon Code	Traveler Code	Definition
CAVSN	[[CAVSN_FIELDNAME]] <<CAVSN>>	Cavity
CMSN	[[CMSN_FIELDNAME]] <<CMSN>>	Cryomodule
FPFTSN	[[FPFTSN_FIELDNAME]] <<FPFTSN>>	Field Probe Feedthrough
HEHSN	[[HEHSN_FIELDNAME]] <<HEHSN>	Helium headers
HEHDSN	[[HEHDSN_FIELDNAME]] <<HEHDSN>>	Helium Vessel Head
HESSN	[[HESSN_FIELDNAME]] <<HESSN>>	Helium Vessel Shell

The Entry Codes (Special Codes)

Ribbon Code	Traveler Code	Definition
HOLDPOINT	[[FIELDNAME]] {{USERNAME1, USERNAME2 }} <<HOLDPOINT>>	Creates a hold point in the traveler preventing further data entry.
SIGNOFF	[[FIELDNAME]] {{USERNAME1, USERNAME2}} <<HOLDPOINT>>	Creates a sign off hold point preventing traveler closing until cleared.

Appendix C

»» The Serial Number Acronyms (SNs)

The SN's

Serial Number	Part Name
AMGVSN	All Metal Gate Valve
AV15SN	1 ½ Angle Valve
B12TDSN	Transducer
B53TDSN	Transducer
CAVSN	Cavity Assembly
CMSN	Cryomodule Assembly
CPSN	Cavity Pair Assembly
CUSN	Cryounit Assembly
D12TDSN	Transducer
DSRFSN	Double Sided Rectangular Flange
ELFTSN	8 Pin Double Ended Feed Thru Mini Conflat (Electrical Feedthroughs)
EVASN	Electric Valve Actuator
FPFTSN	Field Probe Assembly (Inside or cold Feedthroughs for FPs)
FT06PSN	6 Pin Circular Connectors
FT10PSN	10 Pin Feedthrough
FT19PSN	19 Pin Feedthrough on 2.75 Flange
FT32PSN	32 Pin Feedthrough on 2.75 Flange
GV40SN	4" Gate Valve
GVWFSN	Waveguide Flange
GVWGSN	Waveguide Spool - Left

The SN's

Serial Number	Part Name
HEHDSN	Cryomodule Cryogenic Circuit Components - Helium Headers
HEHSN	Cryogenic Circuit Assembly
HESSN	Helium Vessel Assembly (LH)
HLSSN	Helium Level Sensor
HMDRSN	Harmonic Drive
HMFTSN	HOM Probe Feedthrough (Inside or Cold Feedthroughs for HOMs)
HVHDSN	Helium Vessel Head Assy (cryo HELV headers)
IMAGSN	Inner Magnetic Shield Assembly
INFFSN	Instrument Feedthrough Flange
IP45S2DSN	45S ION Pump
IP45S4DSN	45S ION Pump
MUGVSN	Mini UHV Gate Valve
NTFTSN	Double end Type N in 2.75 CF (Outside or Warm Feedthroughs for HOMs and FPs)
OMAGSN	Outer Magnetic Shield Assembly
PBDSN	Pressure Burst Disc
PVASN	Purge Valve Assy
QG999SN	999 Quatro Gauge
RECSN	Return End Cans
RFCBSN	RF Cables
RTBPSN	Warm Beam Pipe Downstream

The SN's

Serial Number	Part Name
SDTSN	Silicon Diode Thermometer
SECSN	Supply End Cans
SFRSN	Space frame Sub-Assy
SMSN	Stepper Motor
SUBPSN	Warm Beam Pipe Upstream
SWPSN	Half HT-H-PL Sweep w/Port - Detail
THLHSN	Al Left Hand Top Hat Weld (Single)
THRHSN	Al Right Hand Top Hat Weld (Single)
THRMSN	Thermal Shield
THTDSN	Al Top Hat Weldment - Double
THTSSN	Single Top Hat Assembly
TUNCSN	Cold Tuner Assembly
TUNWSN	Warm Tuner Assembly
VPFTSN	Sapphire Viewport (Sapphire Windows)
VVSN	Vacuum Vessel
WBASN	Brazement Adapter Assy
WGDSN	Waveguide Assy
WINSN	Window Installation

Appendix D

»» The Traveler / Procedure Acronym Listing

Acronym List: Project Level

PRJ-SYS-WCA-COMP[-COMP]

PROJECT	Project Definition (NOUN)	PROJECT	Project Definition (NOUN)
BES	BES 400MHz Cavity	HZB	HELMHOLTZ BERLIN CAVITIES
BNL	BROOKHAVEN NAT LAB	ILC	INTERNATIONAL LINEAR COLLIDER
C100	12GEV CRYOMODULE	JLAB	JEFFERSON LAB
C12	C12 WORK	L2	PRODUCTION FOR LCLS-II PROJECT
C50	C50 REFURBISHMENT PROJECT	L2P	PROTOTYPE SECTION OF LCLS-II
C50R	C50 REFURBISHMENT PROJECT	L2Q0	Q0 SECTION OF LCLS-II
CAVPR	CAVITY PROCESSING	LCLS2	LCLS-II PROJECT FOR SLAC (TESTING)
CEBA	CEBA	QCM	QUARTER CRYOMODULE UPGRADE
F100	ADMIRAL CRYOMODULE REWORK	R100	12GEV CRYOMODULE (REN)
FEL	FEL REWORK/REPAIR	SNS	SPALLATION NEUTRON SOURCE
GEV12	12 GeV hierarchical name for top level project	STP	STANDARD TRAVELER PROCEDURE
		TORUS	HALL B TORUS MAGNET

Acronym List: System Level

PRJ-SYS-WCA-COMP[-COMP]

SYSTEM	System/Org (NOUN) (Top Level Cryomodule System / Component)	SYSTEM	System/Org (NOUN) (Top Level Cryomodule System / Component)
ACC	ACCELERATOR	D3	DETOURS ETC.
CAV	CAVITY	HALLD	HALL D (OF GEV12)
CM	CRYOMODULE	INJ	INJECTOR
CPR	CAVITY PAIR	INSR	INSPECTION SUMMARY REPORT
CST	CAVITY STRING	MAG	MAGNETS
CU	CRYO UNIT	NCR	NON-CONFORMANCE REPORT
		PHYS	PHYSICS

Acronym List: **WCA Level**

PRJ-SYS-WCA-COMP[-COMP]

WCA = Work Center / Activity

WCA	Work Center / Activity (Verb)	WCA	Work Center / Activity (Verb)
ACTS	ACCEPTANCE TESTING	CRYO	CRYOGENICS
ALGN	ALIGNMENT	DEGR	DEGREASING
ASSY	ASSEMBLY	DIAG	DIAGNOSTICS
BAKE	BAKE-OUT	DISA	DISASSEMBLY
BCP	BUFFERED CHEMICAL POLISH	EBW	ELECTRON BEAM WELD
BCPQ	BUFFERED CHEMICAL POLISH W/QTIP	EP	ELECTROPOLISH
BRAZ	BRAZING	EVAC	EVACUATION
CAL	CALIBRATION	FAB	FABRICATION
CHEM	CHEMISTRY	HEAT	HEAT TREATMENT
CHK	CHECKOUT	HEP	HORIZONTAL ELECTRO POLISH
CLN	CLEANING	HPR	HIGH PRESSURE RINSE
CLNRM	CLEAN ROOM	HPRF	HIGH POWER RF
CMTF	CRYOMODULE TEST FACILITY	INSP	INSPECTION
COMM	COMMISSIONING	INST	INSTALLATION
COOL	COOLDOWN	IONCLN	IONIZED NITROGEN CLEANING
CPT	CAPACITANCE PROCESSING TRAVELER	LAP	LAPPING

Acronym List: **WCA** Level

PRJ-SYS-**WCA**-COMP[-COMP]

WCA = Work Center / Activity

WCA	Work Center / Activity (Verb)	WCA	Work Center / Activity (Verb)
LPRF	LOW POWER RF	RFIN	RF
MACH	MACHINING	RWRK	REWORK
MOVE	MOVING	SCHED	SCHEDULED
OPTI	OPTICAL	SHP	SHIPPING
PERF	PERFORMANCE	SUM	SUMMARY
PKG	PACKAGING	SURV	SURVEY
PREP	PREPARATION	TDWR	TRANSFER TO DEWAR
PRET	PRESSURE TEST	THKM	THICKNESS MEASUREMENT
PROT	PROTECTION	TOVR	TURNOVER
RBLD	RE-BUILDING	TRANS	TRANSPORTATION
RECOV	RECOVERY	TUNE	TUNING
REMV	REMOVAL	UHVC	ULTRA HIGH VACUUM CLEANING
REPL	REPLACE	VTA	VERTICAL TEST AREA
REPR	REPAIR	VTRF	VTA RF TEST
RFFT	RF FEEDTHRU	WARM	WARM-UP
RFETR	RF FREQUENCY TRACKING	WELD	WELDING

Acronym List: Component Level

PRJ-SYS-WCA-COMP[-COMP]

WCA = Work Center / Activity

COMPONENTS							
COMP	DEWR	FT06P	HMDR	LLDB	PTUB	SUBC	VBV
ADPT	DGLG	FT08P	HMFT	LOAD	PVA	SUBP	VLV
AMGV	DLCF	FT10P	HOME	MANF	QG999	SWP	VPFT
AS01	DLWF	FT19P	HOML	MLI	RBLD	TCAP	VV
AS02	DLWN	FT32P	IMAG	MUGV	REC	THLH	VVBL
AV15	DLWS	GTV40	INAD	MWNRF	RTBP	THRH	VVLC
B12TD	DSRF	GTVC	IND	NBMP	RTFT	THRM	VVLW
B53TD	ENDD	GTVW	INFF	NBRG	SCND	THTD	WBA
BPBR	FINL	GVWF	INIT	NTFT	SCWG	THTS	WG13
BPIP	FLNG	GVWG	INTL	OMAG	SEC	TSTD	WGD
BPIPE	FMAP	HCEL	INTN	OMAGS	SFR	TUN	WGDY
CMPL	FORM	HEHD	IP45S2D	PBD	STBK	TUNC	WIN
COAX	FPFT	HES	IP45S4D	PFNG	STKU	TUNW	WINW
COLD	FPC	HEVH	JTAT	PORT	STND	TWLD	WNCR
COMP	FRST	HLS	KIT	PRB	STPM	VALV	WNEY
	FPSP	FPPT	FPCFT	FPCPT			

Appendix E

- » Oracle Reserved Words
Do not use for [[FIELDNAMES]]

Oracle Reserved Words and Keywords

The list below is not complete, but we think we have covered all the words that might even possibly pertain to Pansophy traveler writing. These are terms that cannot be used as they appear here as field names in Pansophy. is encountered.

ACCESS	ENABLE	MIN	PUBLIC	SESSION	TRIGGER
ACCOUNT	END	MEMBER	PURGE	SET	TRIGGERS
ARRAY	ENFORCE	MINIMUM	QUEUE	SHARE	TRUE
AUDIT	ENTRY	MINUS	QUOTA	SHARED	TRUNCATE
BLOCK	ESCAPE	MINVALUE	RANGE	SHRINK	TX
BODY	EXCEPT	MODE	RAW	SIZE	TYPE
CHECK	EXCEPTIONS	MOVE	READ	SKIP	UNDO
CHECKPOINT	EXCHANGE	NEW	REAL	SNAPSHOT	UNION
CLUSTER	EXCLUDING	NEXT	REBUILD	SOME	UNIQUE
COLUMN	EXCLUSIVE	NONE	RECOVER	SORT	UNLIMITED
COLUMNS	FALSE	NORMAL	RECOVERABLE	SPECIFICATION	UNLOCK
COMMENT	FAST	NUMBER	RECOVERY	SPLIT	UNRECOVERABLE
COMPRESS	FILE	NUMERIC	REF	STANDBY	UNTIL
COMPUTE	FUNCTION	OBJECT	REFERENCES	START	UNUSABLE
CONNECT	GLOBAL	OFF	REFERENCING	STATISTICS	UNUSED
CONSTRAINT	GLOBALLY	OLD	REFRESH	STOP	UPDATABLE
CONSTRAINTS	GROUP	ON	RENAME	STORAGE	UPDATE
CONTENTS	GROUPS	OPEN	REPLACE	STORE	USAGE
CONTINUE	HEADER	OPTION	RESET	STRUCTURE	USE
COST	INDEX	ORDER	RESIZE	SUCCESSFUL	USER
CREATE	INDEXED	ORGANIZATION	RESOURCE	SWITCH	USING
CURRENT	INDEXES	OVERFLOW	RESTRICTED	SYNONYM	VALIDATE
CURRENT_USER	KEY	OWN	RETURN	SYSTEM	VALIDATION
CYCLE	LABEL	PACKAGE	RETURNING	TABLE	VALUE
DATABASE	LEVEL	PARTITION	REUSE	TABLES	VALUES
DATAFILE	LIMIT	PASSWORD	REVERSE	TEMPORARY	VIEW
DATAFILES	LINK	PERCENT	REVOKE	THAN	WHEN
DATE	LIST	PERMANENT	ROLE	THE	WHENEVER
DECIMAL	LOCK	PLAN	ROLES	THEN	WHERE
DEFAULT	LOCKED	PRECISION	ROLLBACK	THREAD	WITH
DIRECTORY	LOG	PRESERVE	ROW	TIMESTAMP	WITHOUT
DISCONNECT	LOGFILE	PRIMARY	ROWS	TIME	WORK
DISMOUNT	LOGGING	PRIOR	RULE	TO	WRITE
DISTINCT	LONG	PRIVATE	SAMPLE	TOPLEVEL	WRITEDOWN
DISTRIBUTED	MANAGE	PRIVILEGE	SCOPE	TRACE	WRITEUP
DOUBLE	MASTER	PRIVILEGES	SEGMENT	TRACING	YEAR
DROP	MAX	PROCEDURE	SELECT	TRANSACTION	ZONE
DUMP	MAXVALUE	PROFILE	SEQUENCE	TRANSITIONAL	