



# Work Control Center Overview



## Purpose of Work Control Center

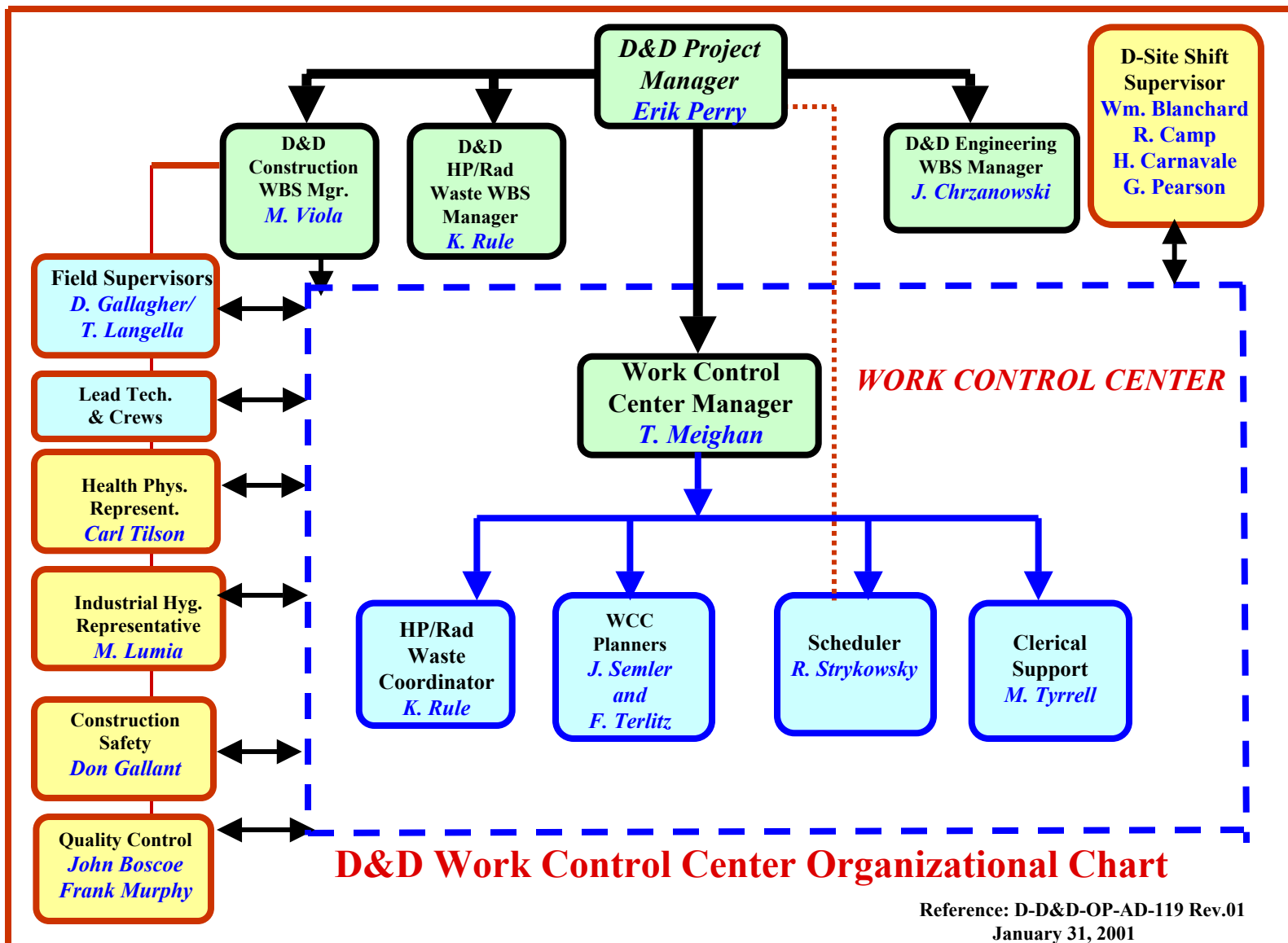
- Allow engineering to concentrate on developing procedures and technologies
- Allow field crews to concentrate on performing procedures
- Fill the gap between the two by performing a critical review of the EWPs for completeness, obtaining all permits, arrange for pre and post-job briefings, resolve issues raised during performance of procedures (while keeping field crew busy with another procedure)



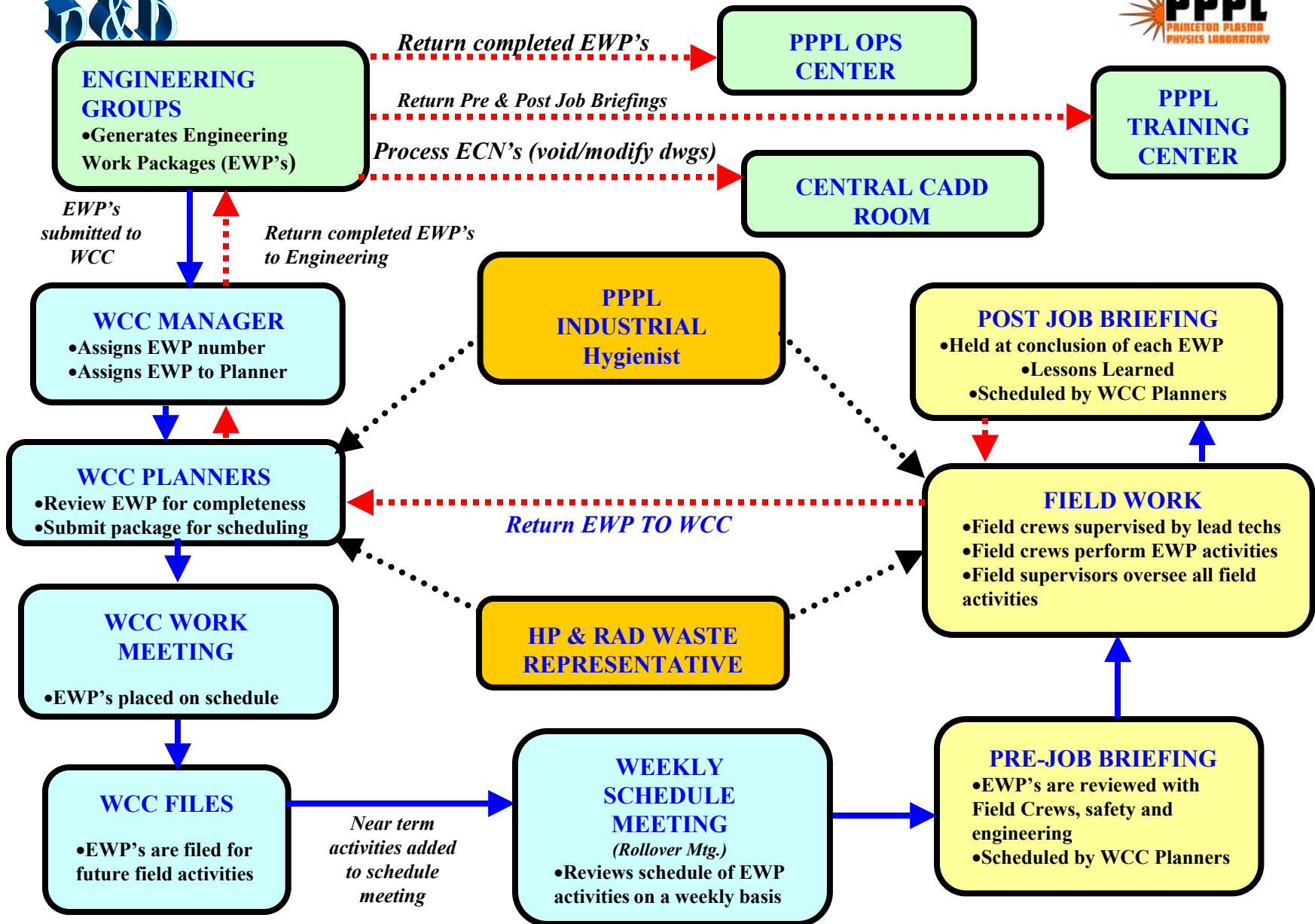
# Work Control Center



- **Under the guidance of the Project Manager, the Work Control Center (WCC) coordinates all field activities between engineering, the field supervisors, ES&H, and other organizations.**
- **Reviews the Engineering Work Packages (containing the written procedures and permits) for completeness.**
- **Provides another EWP to field crews when they can not perform the task exactly as asked for on the written procedure .... No need for the field crew to improvise or change things on-the-fly. WCC resolves issues with engineering in an off-line manner.**



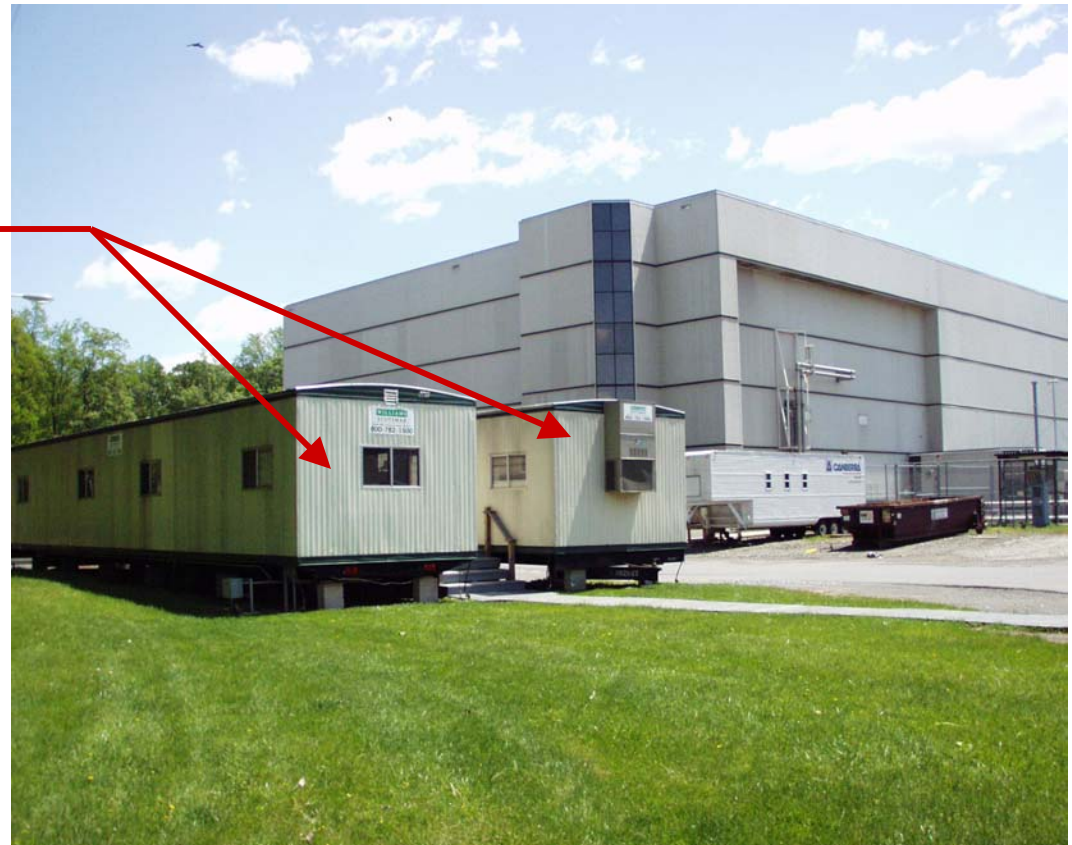
Reference: D-D&D-OP-AD-119 Rev.01  
January 31, 2001



**FLOW CHART OF ENGINEERING WORK PACKAGE PROCESSING**

## Work Control Center

- Located next to TFTR Test Cell
- Provides meeting room
- Provides the WCC staff with office space



## Meeting Room

- Safety Meetings
- Pre & Post Jobs
- Training Room
- Daily Meetings





## Tracking Work Packages

The Work Control Center Status Board, kept current by the planners, serves as a good tool for the Construction Manager, Planners, and other groups in the WCC.

The Status Board is an overview of jobs in progress, readiness of new work packages and location of activities to avoid work crew congestion .







# Work Control Center



## Work Order

- Reference to the EWP and Primavera Activity (Master Schedule No.)
- Primavera is a program used for Scheduling; Tracking Schedule vs. Expenses. (R. Strykowski)
- Work and Safety Description

<b>D&amp;D WORK ORDER</b>		Engineering Work Package No.					
<b>WCC Planner:</b>				<b>Date:</b>			
<b>EWP Title:</b>							
<i>Primavera Activity No.:</i>		<i>WP No.:</i>		<i>D-site Location</i>			
<i>Authorized for Prerequisites Only (WCC Mgr.)</i>						<i>Date</i>	
<i>Authorized to Begin Work (WCC Mgr.)</i>						<i>Date</i>	
<b>WORK DESCRIPTION</b>							
<b>Plant Conditions/Safety Precautions Required:</b>							
<b>Lockout/Tagout Required:</b>		<input type="checkbox"/> <i>Yes</i> <input type="checkbox"/> <i>No</i>		<b>Acknowledgement (Lead Technician)</b>			



# Work Control Center



## Work Order

Contains all necessary permits.

- Procedure No.
- Work permit
- Radiation Work permit
- Tritium Line Break permit
- Flame permits.
- Confined space permit
- Penetration Permit

<b>DOCUMENTATION</b>				<b>Pre-job Briefing Held (Field Supervisor)</b>				<b>Date</b>		
D-site Work Permit Number:										
Tritium Gaseous Release Permit :				<b>Work Crew Members</b>						
YES		NO		<b>Lead Tech.</b>						
IP Numbers:										
Lift Procedure Number:										
RWP Number:										
Flame Permit Number:										
				<b>Comments:</b>						
Confined Space Permit:										
Penetration Permit Number:										
NEPA No:										
USQD No:										
				<b>Post-job Briefing Held (Field Supervisor)</b>				<b>Date</b>		
Crane Required		Critical	Ordinary	No						
Forklift Required		Yes	No							
ES&H Hazard		Yes	No		<b>Final Closeout of EWP (WCC Manager)</b>				<b>Date</b>	
T2 Line Break		Yes	No							
Door Permit Required		Yes	No							
				D-D/D-OP-AD-119 Rev.01						



## What worked well

- **Tracking packages** A Log Spread Sheet was kept to track all Work Packages past, present and future which helped to get parts and equipment prior to the start of each job.
- **Work Control Center Status Board** The Status Board served as a job scheduling aid to minimize field congestion, which prevented crews from working on top of each other.
- **Credit card** Having a couple people in the project with Government credit cards, issued through Procurement, stream lined the purchasing of items under a pre-set dollar limit.



## What Worked Well (cont.)

- **Location of the Work Control Center**
  - Due to its close proximity to the Test Cell, the WCC provided a convenient location for communication between the field and engineering.
  - The WCC also provides a quiet location for daily meetings as well as Pre and Post Job Briefings, training, etc.



# Work Control Center



- Meetings (*Played an important part of D&D Project*)
  - **Plan of the Day**
    - **Attendees-** Project Manager along with the WCC, Construction Manager, Field Supervisors, Lead Techs, Health Physics/Rad. Waste Representative , Industrial Hyg., Construction Safety, Engineering and the DOE Representative).
    - **Purpose** - To coordinate the day's activities and to resolve conflicts between the various work groups or activities.
  - **Daily C-Site**
    - **Attendees-** Deputy Director of the Lab, NSTX Operations Representatives, Head of Engineering, D&D Project Manager and a representative from all the departments in the Laboratory.
    - **Purpose-** To discuss the daily experimental run plan for everyone associated with running the Fusion experiment in the Test Cell next to the TFTR Test Cell. Since both projects share some common space. All attendees are invited to report on the activities of the day to avoid any conflicts.



- **Meetings -Continued**

- **Weekly Rollover**

- **Attendees-** WCC Representative, Shift Supervisor for the Operating Experiment, Department Representatives, Health Physics, ERWM, Industrial Hygiene, and the ES&H Representatives.
    - **Purpose -** The **WCC** Scheduler provides the weekly PPPL Rollover Meeting with a 4-week look ahead of activities being planned for D&D. The Rollover Schedule lists all the activities occurring at D-Site.

- **Weekly WCC/Project**

- **Attendees-** Project Manager along with the WCC, Construction Manager, Field Supervisors, Engineering, Health Physics/Rad. Waste Representative, Industrial Hygienist, and the DOE Representative.
    - **Purpose -** The long range schedule and any issues which may affect work or schedule are addressed.



## Conclusion

In conclusion, the Work Control Center (WCC) concept has worked so well that PPPL is incorporating this concept, on a smaller scale, into upcoming projects at the Laboratory.

This includes the removal activities for the PBX machine and for the eventual assembly of the new National Compact Stellarator Experiment (NCSX) Project.