## WPC in a Nutshell

The WPC process is built on many existing SLAC systems- modifying and enhancing them where necessary, changing or eliminating what was redundant or not useful, enhancing or creating support tools and training, and where necessary adding additional formality.

The foundation of the process is that all activity level work is placed into one of three categories based on the job complexity. Many of the commonly performed activities at SLAC have been defined and the appropriate hazards and controls identified. These activities are documented in an activity library that can be used by supervisors and workers to generate consistent Job Safety Analysis's (JSA) or Activity & Training Authorization (ATA) (an enhanced JHAM).

- **Green** - these are activities associated with everyday living, routinely accepted by society, and controlled by means well know to the workers. Specific ES&H training is not required. Authorization and release to perform green activities is granted upon completion of new employee safety orientation and the Safety Comes First checklist. Examples of green activities are available, and workers may perform these tasks without any additional formal work planning.

- **Yellow** - these are activities that do not require coordination with another work group or trade. Yellow activities may be performed in your resident work area or in another location. Authorization is granted by the supervisor or UTR for employees or non-service sub-contractors, respectively. If performing work inside your resident work area, no additional coordination is required. If performing work outside your resident work area, you must notify the Building or Area Manager to receive a Release to Proceed before initiating your activity. Examples of yellow activities are available.

- **Red** - these are activities that require coordination with another work group or trade, typically in support of a project with a larger scope than yellow work. All red work requires coordination and a Release to Proceed from the Area Manager, Project Manager or Principle Investigator. Routine coordination meetings are held and attendance is required to receive the Release to Proceed for the duration defined at the meeting. Examples of red activities are available.

# Accelerator Maintenance Day Tasks

6/1/2009

| | | | | PIC | Shop | Task Person | Forms | (hr) |
|---|---|---|---|---|---|---|---|---|
| Access | Conditions: | 1. | SPEAR access: 6:30 to14:00 | | | | | |
| Access | Conditions: | 2. | SPEAR - Power Supply Checks - 2 hrs after power restored | | | | | |
| Access | Conditions: | 3. | OUTAGES: | | | | | |
| Access | Conditions: | 4. | RSWCF Open: | | | | | |
| BEAM LINE | Vacuum | 5. | Walk through | Neal | Vacuum | Bach/Spector | | .5 |

| | | | | PIC | Shop | Task Person | Forms | (hr) |
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| | | | | PIC | Shop | Task Person | Forms | (hr) |
|---|---|---|---|---|---|---|---|---|
| BEAM LINE | Vacuum | 6. | 10-1 serial # valve size and type | Neal | Vacuum | Spector/Jacobson | | .5 |
| BEAM LINE | Vacuum | 7. | Out of alcove:<br>All BL isolation valve serial #sizes, location | Neal | Vacuum | Spector/Jacobson | | 2 |
| BEAM LINE | Vacuum | 8. | Out of alcove<br>4-1 spindle spin to test for pressure bursts | Neal | Vacuum | Spector/Bach | | 1 |
| Injector | Controls | 9. | Replace the old LINAC RF frequency counter with a newer Agilent 53181A counter and add its interface to the GPIB IOC. | Allison | Computer Controls | | | |
| SPEAR | Beam Diagnostics | 10. | Install upgraded cables in TL BPM's. | Martin | ESG | Martin | | |
| SPEAR | Beam Diagnostics | 11. | Adjust long-haul BPM cables in B132 for rack installation. | Martin | ESG | Martin | | |
| SPEAR | Beam Diagnostics | 12. | Plan work at BTS BPM9. | Martin | ESG | Martin, Sebek | | |
| SPEAR | BCS | 13. | Re-post BCS labels on SPEAR3 QF's. | Rafael | ESG | 2 | | 1 |
| SPEAR | BCS | 14. | Install TOSCI chassis in B132. | Martin | ESG | Martin | | |
| | | 15. | Post BCS labels in tunnel | Schmerge | | | | |
| SPEAR | RF | 16. | Maintenance on RF HVPS<br><br>Two weeks ago PCD replaced faulty components in the crowbar tank. This shift they would like to inspect and replace, as | Sebek | | PCD | | 5 |

PIC Shop Task Person Forms (hr)

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| | | | required, components in the phase tank. The estimated duration of the work is five hours. PCD starts work at 08:00, so the block of time is between 08:00 and 13:00. The high voltage electricians will take the supply out of service between 07:30 and 08:00 on June 1. After PCD has completed their work, we will call the electricians back to return the HVPS to service.<br><br>Service request generated to the High Voltage electricians for this work on Monday. | | | | | |
| SPEAR | Mechanical | 17. | Mechanical Inspections | Ernst | MSG | 1-MSG tech | | 1 |
| SPEAR | Mechanical | 18. | 2) Read all SPEAR QFC circuit #4 | Ernst | MSG | 2-MSG tech | | 3 |
| SPEAR | Mechanical | 19. | No access:<br>Repair LCW leak outside building 118. Requires the building 118 power supply LCW to be shutdown, LOTO, and overhead pipe draining to portable poly tank. | Ernst | MSG | 2-MSG tech | | 3 |
| SPEAR | Insertion Devices | 20. | Check the BL13 EPU row phase girders 9:30-10am. No access required | Rarback | | | | 0.5 |
| SPEAR | Vacuum | 21. | Walk through | Neal | Vacuum | Pak | | .5 |
| SPEAR | Vacuum | 22. | Remove long coiled IG cable form 9S | Neal | Vacuum | Pak | | .5 |
| SPEAR | Vacuum | 23. | G07R3C1 Tc Troubleshoot | Neal | Vacuum | Ortiz/Neal | | 1 |

PIC Shop Task Person Forms (hr)

| | | | | PIC | Shop | Task Person | Forms | (hr) |
|---|---|---|---|---|---|---|---|---|
| SPEAR | Vacuum | 24. | Out of alcove<br>Swap IP14A Ion Pumps with IP14B on pumps to correct sequence | Neal | Vacuum | Pak | | 1 |
| SPEAR | Vacuum | 25. | Out of alcove<br>RGA Scans 8s and 14G | Neal | Vacuum | Pak | | 2 |
| SPEAR | Facilities | 26. | Modify fence and stair on the roof of the SPEAR -- the two steps stair leading to B132 with a gated fence access. The modification is required to prepare for the installation of the chilled water piping for the new chiller. | Cadapan | | | RSWCF | |
| SPEAR | Facilites | 27. | Prep air system for replacement of feed piping.<br>Shutoff air and install caps for bypass line. SPEAR will be switched to auxiliary supply during the shutdown. | Cadapan | | SLAC Facilities | | |

PIC Shop Task Person Forms (hr)