

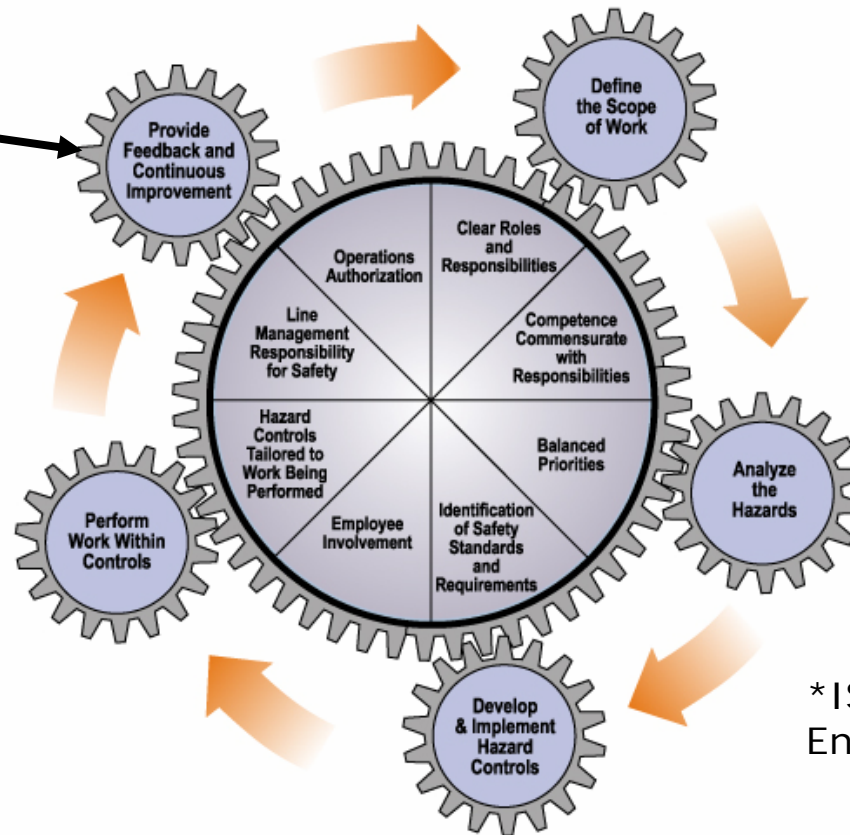
LCLS Cable Plant

ISEMS in Practice:

Where to go from here and the lessons learned from S20..

ISEMS: Cable Plant -Injection

I am here
now



* ISMS-Integ. Safety & Enviromental Mgt Systems

The Contractor has left the Auditorium...

- ☐ Any remaining long-haul cable installations in S20 are yours to pursue thru the Cable Shop Job Order system
 - ☒ Job Order submission detailing work
 - ☐ CAPTAR coding
 - ☐ Materials: Cable and Connectors
 - ☒ See Michael DiSalvo or myself first for availability
 - ☐ Follow-up with Cable Tech
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Cable Plant: Moving On...

- ❑ To provide future [infrastructure](#)-
 - Work with PCD to design Rack and Tray systems.
 - ❑ Establishes cable run lengths and routing
 - Create coarse rack layout of involved systems.
 - ❑ Defines AC power requirements per bay
 - ❑ Modifiable by Systems Engineering
 - Rack/Elevation determines “Origin” of cable
 - Collect and disseminate Mechanical Group beamline information
 - ❑ Determines Z location of devices
 - Determines “Destination” of most cabling
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..Moving On (cont.)

- ..basically CAPTAR input tells me what I have to supply to others!
 - Rack Profiles
 - How many rack bays
 - AC power to CF (NOW!!)
 - What kind and how many circuits
 - Cable Plant
 - Tray sizing and routes
 - This has started up AGAIN!
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Lessons Learned:

☐ Cable Information - Late

- Systems not yet designed (all new)
 - ☐ New Staff-Priority: Equipment ID and procure
 - ☐ New Equipment: New cable and connectors
 - Cable Plant had to go to contract to make installation window.
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Lessons Learned (cont.)

- ❑ Low Smoke Non-halogen made cable procurement painfully:
 - Slow
 - ❑ 10 week deliveries not uncommon
 - ❑ Contractor held-up
 - Expensive
 - ❑ 3x the cost
 - Limited selection – This hurts!
 - ❑ Too large a gauge
 - ❑ Too many conductors
 - ❑ Not enough shielded pairs in a single cable...
 - ❑ We want your feedback right away!
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Queries to Follow

- We now have more to model with but..
 - High level decisions still have to be made as to equipment concentrations.
 - We still need your input to [pending designs](#)... preferably in CAPTAR or CAPTAR like format
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BTH West –B105

BUILDING NO. 105
(TOP OF BEAM SWITCHYARD
AT STATION 107+501)

