Manager's Briefing Card

TITLE: Electrical Design Standards required that Align with On Line Wiring Program Software	DATE OF ISSUE: 14Nov2016
AFFECTED DEPARTMENTS OR WORKGROUPS: REFURB DESIGN Engineering; Vendor partners	DUE DATE:
ISSUING MANAGER: Raza Zaidi	FILE NUMBER: NK38-CORR-60110-0622148

Purpose:

This Briefing Card is intended to re-inforce the electrical design standards that are an integral part of and associated directly with the On line Wiring software.

Background / Description of the Issue:

The On Line Wiring program was developed around the tree structure of wiring the station. The plant is cabled from field end device to local junction boxes and or to panels. From there to distribution frames where other cabling from control areas meet to allow varied control and power terminations. In order for this framework to work in alignment with On Line Wiring; electrical standards are in place that keep the alignment with the program. Some Examples of these Standards that were impacted and identified via SCR N-2016-26786 are:

NK38-ESS-57100-03 sets the basic rules for Power , Control & Manual Cables numbering
NK38-D1S-57100-0008 Typical Cable Block Diagram
NK38-L4S-57180-0098 Electrical Cable Penetration List
NK38-D0S-57400-0058 Cable Tray And Conduit Route Designations
NK38-ESS-65000-01 sets the rules for providing Panel numbering
NK38-ESS-57200-01 sets the rules for providing JB numbering
NK38-ESS-60110-01 sets the rules for Device numbering in alignment with D-ED-01520-10001
NK38-ESS-60110-03 sets the rules for Cable Shield Wiring
NK38-D2S-65330-5108 Motor Control Center (MCC)terminal Allocation
NK38-DG-50000.1 Electrical Systems Division Separation Guide
D-STE-60110-10001 On Line Wiring Standard
N-INS-60110-10000 On Line Wiring Update
NK38-GUID-60110-10001 Refurb On Line Wiring Guide

The Refurb On Line Wiring Guide identifies the handoff detail that is required from vendor submission through to Closeout. This process including the OLW database ensures the rigour required for safety and safety related equipment for independant verification. See attached template

Instructions / Briefing Details:

When preparing changepapers that affect On Line Wiring, ensure all applicable standards are reviewed and used as they can affect both the inputs as well as the outputs from the On Line Wiring program.

Exceptions:
None

Compliance:
Immediate

References:
N-PROC-MP-0090
N-INS-60110-10000
N-Guid-00700-10000

Prepared by: 14 Nov 2016
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Approved by: 15 Nov 2016.
Raza Zaidi
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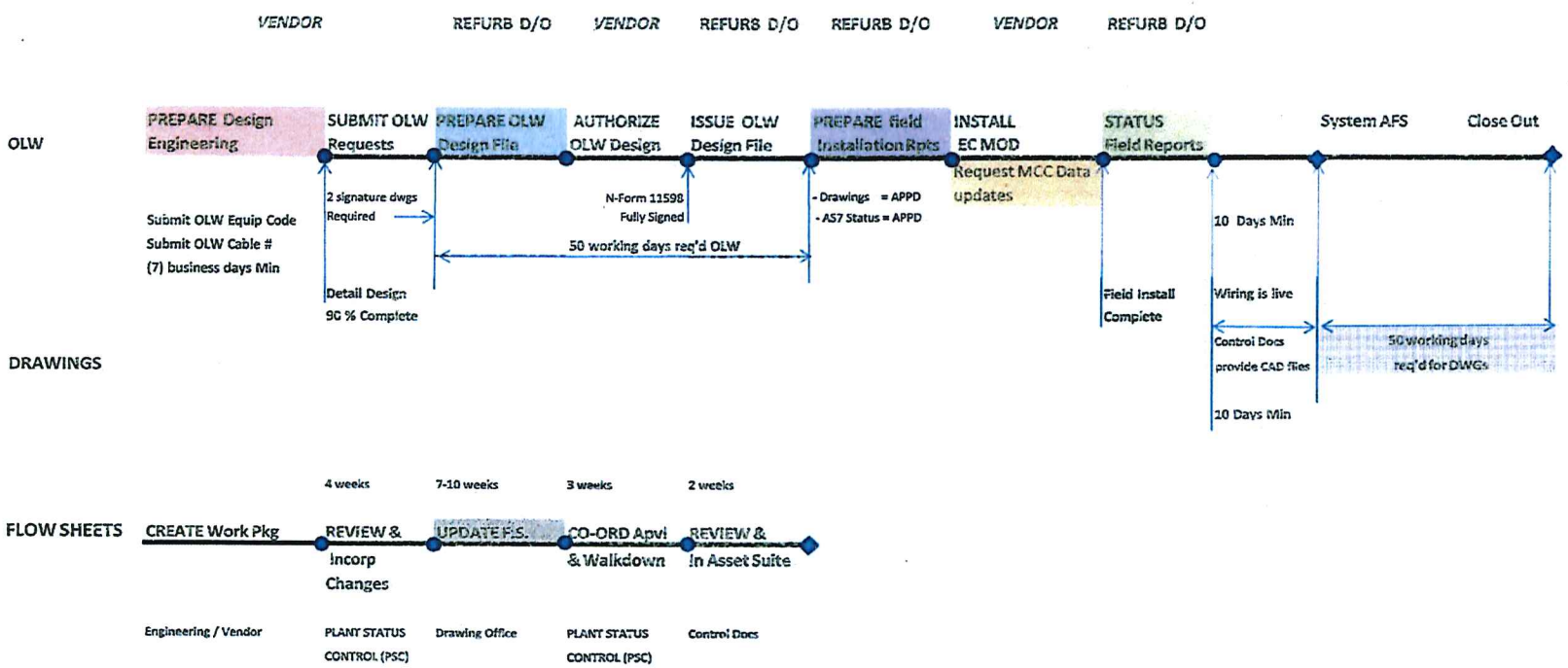
Refurb Design Engineering

REFURB ON LINE WIRING PROCESSING - REFERENCE NK38-GUID-60110-10001



P6 STANDARD INPUTS		Estimates (min)
OPG-OLW Support- Generate Elec Tag #s	NDLD	3 Hours per request
OPG-OLW Support- Generate Mech/Civil Tag #s	NDMD	3 Hours per request
OPG-OLW Support- Generate Cable #s	NDLD	3 Hours per request
OPG-OLW Support- Prepare OLW Design File	NDLD	12 Hours per EWD - 9 Hours per CBD
OPG-OLW Support- Prepare OLW Change Reports	NDLD	8 Hours per EWD includes Cables
OPG-OLW Support- Commissioning Support	NDLD	4 Hours per EWD (FICS) 4 Hours per CBD
OPG-OLW Support- Status OLW Changes	NDLD	20% of OLW Design file
OPG-OLW Support- Update MCC Data	NDLD	1 Hours per request
OPG-D.O. Support- Update Electrical Drawings	NDLD	8 Hours per Drawing (Closeout) - 4hrs (FICS) 8 Hours (Changepaper prep)
OPG-D.O. Support- Update Mechanical Drawings	NDMD	9 Hours per Drawing (Closeout) - 4hrs (FICS) 8 Hours (Changepaper prep)
OPG-D.O. Support- Update Civil Drawings	NDCD	10 Hours per Drawing (Closeout) - 4hrs (FICS) 8 Hours (Changepaper prep)
OPG-D.O. Support- Create/Update FS(s)	NDMD	