

	Power Delivery <u>SSUP Conceptual Design Package Deliverables</u>	Rev #:	2.0
		Date:	06-18-2020

SSUP Conceptual Design Package Deliverables

The Conceptual Package is the first deliverable of an SSUP project. The goal of the package is for the Design Team to communicate to the design concept to SSUP program managers and obtain approval prior to large scale customer outreach specialists (COS) efforts or final design efforts. In summary the package consists of the following files:

- Area Map (CAD/PDF)
- Conceptual Drawings (CAD/PDF)
- CMH Estimate File (Excel)

These documents shall be uploaded to WMS when completed. All design criteria shall follow FPL current standards including but not limited to DERM and DCS. Below are guidelines for what the package should consist of. Upon approval of the conceptual package, the designer shall initiate the SSUP Design Work Payment Process.


Area Map

- PDF & KML file showing the area at a Feeder Level and Show (see example)
 - Lateral proposed to be Undergrounded SSUP
 - Broken down by Project (feeder section or deemed appropriate by regional managing team)
 - Laterals that are already undergrounded
 - Proposed undergrounded by others
 - Include WR numbers
 - Lateral Numbers (existing and proposed)

Conceptual Drawings

Cover Sheet

- Lateral Locator Number (LLN)
 - Clearly mark the lateral fuse that is being worked on
- Project Description to include
 - MA
 - Substation & Feeder #
 - LLN(s)
 - General Description of the work to be performed (i.e. phase routing, fusing, etc.)
 - Include record drawing numbers, schematic drawing numbers
 - KV rating for the area
- Customer/Service Count from DM network trace
- Loop Loading Table
 - For Proposed calculations and loop loading:
 - Use estimated kVA per DERM 5.3.1, Table VI – URD Loading Table
 - 1st stage, 13 & 23 kv URD loops should be fused at 80 AMP
 - The fuse applications are listed according to the operating voltages. A future 23 kV loop will be fused the same as a 13 kV loop.
 - Provide a table of loop loading per phase

	Power Delivery <u>UG Lateral Conceptual Guidelines</u>		
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Cover Sheet (cont.)

- Project Location Map (Google EC or RSV aerial underlay)
 - Existing facilities (Show OH devices & UG devices)
 - Turn premises off for screenshot
 - Screenshot needs to be clear and of good resolution
- UG WR Boundaries
- Proposed Loop Routing
 - Draw proposed route of new facilities
- Existing and Proposed Loading
- Proposed TX Locations, Quantity and Sizing
- Proposed Phase Length to be installed/removed
- Existing easements
- Franchise boundaries (municipalities)
- Legend
- North Arrow (correctly displayed)
- Scale bar

Drawings

- Show Conduit/Conductor Size, Material, Length (Primary/Secondary/Service)
- Proposed TX Locations and Size
- Property numbers, ROW line, Property Lines, EOP, Street names
- Phasing (by color)
 - Use different colors for phases, secondary, service
 - Show secondary and service for European Design
- Match Lines

CMH Estimate File

- Provide Preliminary Estimate CMH based on estimate tool
- Upload to Documentum in Excel format

Naming Convention

- WR#-Substation-Last 2 digits of Feeder- last 4 digits of LLN – File Type
Ex. 8951471-Avocado 61 - 9000 – Area Map