Electric Service Guide

Residential Subdivision

June 1, 2019
Contact MID’s Electric Engineering Department
(electric.standards@mid.org)
with any questions about this Service Guide.

Check MID’s website (www.mid.org) “Electric Service Guide” for the
most current version of this Service Guide.

If you have any suggestions about improving this Service Guide,
please complete the form on the last page of this Guide and return
it to MID’s Electric Engineering Department.

USE CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES
BEFORE DIGGING CALL
USA (Underground Service Alert)
1 (800) 227-2600 or 811
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A. Frequently Asked Questions

1. What is a Residential Subdivision?

A residential subdivision is defined as a group of residential lots consisting of 3 or more lots.

2. What are the procedures to obtain electrical service to my subdivision?

You need to provide MID with a full set of signed civil improvement plans and a completed “Application for Residential Subdivision Engineering” (see page 23 for a sample, page 24 for the form). For complete step by step requirements, see page 2, Section B of this document.

3. Does MID design my subdivision?

Yes and no. You (or the developer) are responsible for the actual layout design of the subdivision (lots, streets, etc.). MID will only design the electrical portion of the project. However, this cannot be accomplished until the initial subdivision design is complete.

4. How long does the MID engineering process take?

Design work by MID normally takes 6-8 weeks. You (or the developer) can start your portion of the project any time after you receive the requirements package (see page 2, Requirements for Obtaining Electric Service to a Subdivision). MID crews can mobilize and start installing our facilities within 4 weeks of completed requirements.

5. When will MID install its facilities?

MID normally starts this process 4-6 weeks after final inspections are complete on all MID required facilities.

6. Are there any fees?

Fees may be required depending on where the subdivision is located. You’ll need to contact the MID Engineering Department for all applicable fees.

7. Can I have sub-surface transformers?

The standard and MID-preferred transformer style is a pad-mounted transformer. If sub-surface transformers are chosen, you will be required to pay a non-refundable cost per transformer according to the current fees listed in Appendix A of the Electric Service Rules.
B. Requirements for Obtaining Electric Service to a Subdivision

The following is a general list of items needed to obtain electric service to a proposed subdivision. In all instances a unique letter and drawings will be provided outlining all requirements that must be met by the customer/developer. The letter will also outline what MID will be providing and/or installing.

1. The customer must contact the MID Engineering Technician assigned to the customer’s area (see the Map on page 25).

2. Submit a completed Application for Residential Subdivision and a full set of signed, civil improvement plans to the MID Engineering Department. Civil improvement plans must be submitted via electronic media using AutoCAD version 2000 and above format. Submit this information to the assigned MID Engineering Technician. MID contact information is found on page 4.

3. The MID Engineering Department will design the electrical utilities per the submitted civil improvement plans. MID will issue a Residential Subdivision Contract, a Residential Subdivision Requirements Letter, and a Residential Subdivision Requirements Drawing(s). This process normally takes 8-10 weeks. Larger projects may take an additional 2-3 weeks.

4. The customer is responsible for coordinating all joint trench composite drawings and coordinating the installation of facilities for all other utilities.

5. The customer must install all required underground facilities per the Requirements Letter and Drawing(s). Facilities to include, but not be limited to, underground conduits, service boxes, transformer pads, and switchgear pads.

6. All conduit installations must be inspected and mandrilled per Drawing RES SUB-008.0 (page 11).

7. All vaults and/or service boxes must be installed and inspected per Drawings RES SUB-001.0 through Drawing RES SUB-019.0 (page 22).

8. After final inspections on all required facilities, the customer may apply for electrical service.

9. MID will install electric facilities. MID normally starts this process 4-6 weeks after final inspections are complete on all MID required facilities.
## C. Project Scheduling Table

<table>
<thead>
<tr>
<th>Step</th>
<th>Party</th>
<th>Typical Time Required by MID</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Customer</td>
<td></td>
<td>Send complete application package to MID’s Electrical Engineering Department for review and design.</td>
</tr>
<tr>
<td>2</td>
<td>MID</td>
<td>21 business days</td>
<td>Engineering Technician sends preliminary design to Joint Trench Coordinator or other utilities for Joint Trench Intent.</td>
</tr>
<tr>
<td>3</td>
<td>MID</td>
<td>40 business days following Step 2</td>
<td>Engineering Technician designs the conduit and electrical layout. Engineering Technician sends the Application for Underground Electrical Service and one conduit and two electric layout plans to the Customer.</td>
</tr>
<tr>
<td>4</td>
<td>Customer</td>
<td></td>
<td>Return the signed Application for Underground Electrical Service and pay any applicable fees. Obtain all necessary permits from the local governing authority.</td>
</tr>
<tr>
<td>5</td>
<td>MID</td>
<td>15 business days</td>
<td>Engineering Technician assembles the work order package and submits to MID construction.</td>
</tr>
<tr>
<td>6</td>
<td>Customer</td>
<td></td>
<td>Call USA to locate underground utilities, install conduit and substructures, request MID and local governing authority to inspect trench and conduit.</td>
</tr>
<tr>
<td>7</td>
<td>MID</td>
<td>5 business days</td>
<td>MID inspects trench and conduit.</td>
</tr>
<tr>
<td>8</td>
<td>Customer</td>
<td></td>
<td>Curb, gutter and sidewalk are installed, and substructures set to grade. Request final inspection from MID.</td>
</tr>
<tr>
<td>9</td>
<td>MID</td>
<td>5 business days</td>
<td>MID inspects all substructures and witnesses mandrel test performed by developer.</td>
</tr>
<tr>
<td>10</td>
<td>MID</td>
<td>30 business days pending weather and scope of project</td>
<td>MID installs its electrical facilities and energizes the project.</td>
</tr>
</tbody>
</table>
**D. Local Governing Authorities Within MID's Service Area**

<table>
<thead>
<tr>
<th><strong>City of Modesto Building Department</strong></th>
<th><strong>City of Waterford Building Division</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1010 Tenth St. 3rd Floor</td>
<td>101 E St.</td>
</tr>
<tr>
<td>Modesto, CA 95353</td>
<td>Waterford, CA 95386</td>
</tr>
<tr>
<td>Phone: 209-577-5232</td>
<td>Phone: 209-874-2328</td>
</tr>
<tr>
<td></td>
<td>Fax: 209-874-9656</td>
</tr>
<tr>
<td><strong>Stanislaus County Building Department</strong></td>
<td><strong>City of Oakdale Community Development</strong></td>
</tr>
<tr>
<td>1010 Tenth St. Suite 3500</td>
<td>455 S. Fifth Ave.</td>
</tr>
<tr>
<td>Modesto, CA 95354</td>
<td>Oakdale, CA 95361</td>
</tr>
<tr>
<td>Phone: 209-525-6557</td>
<td>Phone: 209-845-3625</td>
</tr>
<tr>
<td>Fax: 209-525-7759</td>
<td>Fax: 209-848-4344</td>
</tr>
<tr>
<td><strong>San Joaquin County Building Department</strong></td>
<td><strong>City of Escalon Building Department</strong></td>
</tr>
<tr>
<td>1810 Hazelton Ave.</td>
<td>2060 McHenry Ave.</td>
</tr>
<tr>
<td>Stockton, CA 95205</td>
<td>Escalon, CA 95320</td>
</tr>
<tr>
<td>Phone: 209-468-3121</td>
<td>Phone: 209-691-7460</td>
</tr>
<tr>
<td></td>
<td>Fax: 209-691-7439</td>
</tr>
</tbody>
</table>

**City of Riverbank Building Department**

| 6617 3rd St.                           |
| Riverbank, CA 95367                    |
| Phone: 209-863-7128                    |

**City of Ripon Building Department**

| 259 N. Wilma Ave.                     |
| Ripon, CA 95366                       |
| Phone: 209-599-2613                   |
| Fax: 209-599-2183                     |

**E. MID Contact Information**

<table>
<thead>
<tr>
<th><strong>Modesto Irrigation District</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1231 Eleventh Street (P.O. Box 4060)</td>
</tr>
<tr>
<td>Modesto, CA 95354 (Modesto, CA 95352)</td>
</tr>
<tr>
<td>Electrical Engineering Department¹</td>
</tr>
<tr>
<td>Phone: 209-526-7468</td>
</tr>
<tr>
<td>Fax: 209-526-7357</td>
</tr>
</tbody>
</table>

¹ Contact the MID Engineering Technician assigned to the area (see map on page 25).
Residential Subdivision

Electric Service Guide

Drawing RES SUB-002.0: Pull Box Detail for URD Application
COVER FEATURES:

* 20,000 WHEEL LOAD ON 10" X 20" PLATE
* POLYMER CONCRETE CONSTRUCTION
* 2 COIL REA FASTENERS
* NON-SKID SURFACE STANDARD FOR SAFETY
* APPROX. WEIGHT 35 LBS.

BOX FEATURES:

* POLYMER CONCRETE RING
* FIBER REINFORCED POLYMER BODY
* LIGHTWEIGHT
* APPROX. WEIGHT 45 LBS.

<table>
<thead>
<tr>
<th>MJD. PART NUMBER</th>
<th>MATERIAL ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>122–5506</td>
<td>13x24x18 SECONDARY SERVICE BOX ASSEMBLY W/ COVER, MARKED &quot;MID ELECTRIC&quot;</td>
</tr>
<tr>
<td>122–5507</td>
<td>13x24 SECONDARY SERVICE BOX LID MARKED &quot;MID ELECTRIC&quot;</td>
</tr>
<tr>
<td>122–5508</td>
<td>13x24 SECONDARY SERVICE BOX EXTENSION – 8&quot; POLYMER BOX EXTENSION FOR 122–5506</td>
</tr>
</tbody>
</table>

Drawing RES SUB-003.0: Service Box Detail for URD Application
The purpose of this drawing is to provide a clear understanding of a URD transformer pad and conduit template installation.

NOTES:
1. The number of conduits are dependent upon final engineering design by M.I.D. A conduit template drawing will be provided by M.I.D. after a drawing is finalized.
2. Conduits shall be capped to prevent foreign material from entering conduits.
3. A 6 foot minimum separation shall be maintained between ground rods.
4. Bell ends required for all conduits entering template.

<table>
<thead>
<tr>
<th>M.I.D. PART NUMBER</th>
<th>MATERIAL ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>122-5685</td>
<td>PAD, TRANSFORMER, PRECAST CONCRETE 42&quot; x 48&quot; x 6&quot;</td>
</tr>
</tbody>
</table>

Drawing RES SUB-004.0: URD Transformer Pad Installation for 12kV System
NOTES:

LID SPRING LOADED WITH STOPS

1. Lid shall be two piece polymethacrylate or aluminum slip resistant hinged type and rated for incidental traffic. The lid shall also be manufactured by Utility Vault Co. or other company approved by electrical engineering.

2. Lid shall be adjustable, 3" vertically, shall have recessed lift handles, fault indicator view port, recessed M.L.D. identification plate, and louvers for ventilation.

3. Lids shall be secured by 2 recessed pent-head bolts.

4. Inscribed letters "MID HIGH VOLTAGE".

VAULT

1. Vault shall be precast concrete manufactured by Utility Vault Co. or other company approved by Electrical Engineering.

2. Vault shall include four flush pull iron, two 14" diameter sumps 4" deep, two 1" diameter ground rod knockouts, twenty 4" diameter duct knockouts, and three 2" diameter duct knockouts.

---

M.I.D. PART NUMBER MATERIAL ITEM

| 122-5532  | VAULT, PRECAST-CONECTER, 3' X 5' X 4'8" H.D. |
| 122-5534  | COVER, 3' X 5' ID. VENTED                  |

MID ELECTRIC SERVICE GUIDE

RESIDENTIAL SUBDIVISION

3' X 5' X 4'8" PRECAST CEMENT VAILT AND LID

FOR HORIZONTAL SUBSURFACE TRANSFORMERS, 25kV CLASS

CUSTOMER TO INSTALL (2) 3/4" X 10' GROUND RODS.

Drawing RES SUB-005.0: Precast Concrete Vault and Lid for Horizontal Subsurface Transformers, 25kV Class
NOTES:
1. Refer to RES SUB-004.0 for pad installation detail and for transformer clear work area.
2. Install ground rod through customer provided 1" pilot conduit.
3. A 6 foot minimum separation shall be maintained between ground rods.
4. Check with an MID engineering representative for required size opening.
5. Ground rod to be 6" below top of pad in secondary cable area.
6. Bell ends same size as conduit required.

<table>
<thead>
<tr>
<th>M.I.D. PART NUMBER</th>
<th>MATERIAL ITEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>122-5666</td>
<td>PAD, TRANSFORMER, PRECAST CONCRETE, 42&quot; x 48&quot; x 6&quot; OPENING</td>
</tr>
<tr>
<td>122-5667</td>
<td>PAD, BOX, FIBERGLASS, 52&quot; x 50&quot; x 15&quot; x 37&quot; OPENING</td>
</tr>
<tr>
<td>122-5669</td>
<td>PAD, BOX, FIBERGLASS, 52&quot; x 50&quot; x 15&quot; x 28&quot; OPENING</td>
</tr>
</tbody>
</table>

Drawing RES SUB-006.0: Transformer Box Pad, 25kV Class
1.0 GENERAL
These specifications cover installation of transformer pad, high voltage and secondary voltage conduit for single phase power service in a residential subdivision. All material shown shall be furnished by the customer or his contractor including the transformer pad or vault, secondary pull box and, primary and secondary voltage conduit. All materials used shall be supplied by a district approved manufacturer. The District will furnish and install the transformers, switchgear, and the high voltage and secondary cables.

2.0 DUCT INSTALLATION
Duct shall be installed at the proper depth consistent with District requirements and specifications and per the manufacturer's recommendations and shall be properly joined together with couplings, primer and cement and aligned such that there are no sharp edges on the inside to damage the cable. Bell ends (same size at the conduit) are required for all conduits entering pull boxes, transformer pads, and vaults.

The minimum radius of bends depends on duct size and type of installation and shall be as specified in RES SUB-018.0, RES SUB-005.0, and RES SUB-006.0 as applicable or as otherwise noted on the District approved engineering drawing. The total of all angles at couplings and bends shall not exceed 360° in any continuous duct run between outlets.

An inspection must be made by the district when the duct and any required concrete encasement is installed in the open trench. Call 526-7457 to notify the district inspector. After this part of the installation has been approved, the customer will back-fill and compact the trench and prepare to pull a mandrel no less than 0.5" smaller than the inside diameter of the duct and 12" in length. The next inspection will be made by the District when the mandrel is pulled through the duct. At time of inspection the customer will supply an appropriate length of footga-calibrated "pull tape" to attach to the mandrel and pull in the duct. The "pull tape" will be used by the District for subsequent cable installation. Failure to have required inspections at the proper time will result in a delay until the duct is uncovered for inspection and/or the mandrel is pulled in the presence of the District's inspector. See section 2 page 6 for inspection details.

All conduit shall be held vertical when back filling.

3.0 APPROVED DUCT TYPES
Polyvinyl Chloride (PVC) duct designed for direct burial installation shall comply with one of the following standards: Conduit marked schedule 40 PVC ASTM TC-2, or schedule 40 U.L., 90°C.

The District reserves the right to reject any of the above ducts which show signs of damage, or where improperly installed.

Solvent cemented joints shall be made according to the manufacturer's recommendations, using primer and cements meeting the requirements of ASTM D2564 of PVC duct.

4.0 APPROVED PULL TAPES
ARNCO part number DL WP25, Neptco product number WP2500P, or a District approved equivalent.

5.0 TRANSFORMER PADS AND VAULTS, PULL BOXES, AND SERVICE BOXES
Transformer pads shall be in accordance with District specification RES SUB-004.0 or RES SUB-006.0

Transformer vaults shall be in accordance with District specification RES SUB-001.0 or RES SUB-005.0

Pull boxes shall be in accordance with District specification RES SUB-002.0.

Service boxes shall be in accordance District specification RES SUB-003.0.

6.0 STREET CROSSINGS
At locations where the primary and/or the secondary facilities cross a street, the letter 'E' shall be stamped on the curb and gutter on both sides of the street.

NOTE:
For minimum requirements for terminating underground electric services see M.I.D. drawings RES SUB-007.0 & RES SUB-020.0 thru RES SUB-024.0.
PURPOSE:

1.0 These drawings provide a variety of landscape ideas that may be used by the applicant to screen pad-mounted transformers.

2.0 Landscape screening such as plants, shrubs, retaining walls and decorative walls are installed, owned and maintained by the applicant. Landscape screening is encouraged as it helps to improve the overall appearance and acceptance of pad-mounted transformers, which are much less costly to install and maintain than subsurface transformers.

GENERAL:

1.0 These drawings are intended to illustrate a variety of design concepts. They may be modified to fit a particular need or site condition.

2.0 These are illustrative designs and are not intended to be construction or working drawings. Materials and construction methods will have to be determined by the installer to meet the requirements of the particular site.

3.0 The addition of suitable plants to these basic designs will enhance the overall screening effect.

4.0 The designs illustrate screening single-phase transformers, but the same concepts may be applied to screening three phase transformers.

CLEARANCES:

1.0 A clear, level working space of 10 feet is required in front of the transformer.

2.0 Clearance of 3 feet is required from the transformer pad to incidental walls, such as those depicted in these drawings. This may be reduced to 1 foot if the wall height does not exceed 2 feet and the wall thickness does not exceed 1 foot.

PLANTS FOR SCREENING TRANSFORMERS:

All shrubs listed below are evergreen plants that are not over 5’ at maturity. All plants should be planted at a minimum 5 gallon size.

1.0 *Nandina Domestica* (Heavenly Bamboo)

2.0 *Agapanthus Orientalis* (Lily-of-The-Nile)

3.0 *Santolina Chamaecyparissus* (Lavender Cotton)

4.0 *Cistus Hybrids* (White Rockrose)

5.0 *Cistus Purpureus* (Orchid Rockrose)

6.0 *Raphiolepis I. "Coats Crimson" (Indian Hawthorn)*

7.0 *Raphiolepis Indica. "Enchantress" (Indian Hawthorn)*

8.0 *Eriophyllum Confertiflorum* (Yellow Yarrow)

9.0 *Juniperus Conferta* (Shore Juniper)

10.0 *Rosmarinus Officinalis* (Creeping Rosemary)
Drawing RES SUB-010.0: Suggested Landscape Screen for Pad Mounted Transformers
Drawing RES SUB-011.0: Typical Electrical Distribution Layout Without Elbows
Refer to dwgs RES SUB-017.0 & RES SUB-018.0 for trench locations.
NOTES:

1. Ground rod, 1 ea. 5\(\frac{5}{8}\)" x 8', copper clad outside & 1 ea. 3/4" x 10' copper clad inside window.
2. Ground rod clamp (suitable for application)
3. Locate ground rod 6' from the nearest window edge.
4. #2 stranded copper ground wire, with 6' tail in window.
5. Bell ends required for all conduits entering模板。

See drawing RES SUB-018.0 for cross section view.
NOTES:

1. Ground rod, 1 ea. 5/8" x 8', copper clad outside & 1 ea. 3/4" x 10' copper clad inside vault.
2. Ground rod clamp (suitable for application).
3. Locate ground rod at least 6' from first ground rod.
4. #2 stranded copper ground wire, with 15' tail in vault.

See drawing RES SUB-017.0 for cross section view.
NOTES:

1. Bell ends same size as conduit required.
NOTES:

1. Conduits shall be capped to prevent any foreign material from entering.
2. Bell ends same size as conduit required.
Typical Street Cross Section with Pad Mounted Transformer

Transformer Pad Detail

See drawing RES SUB-013.0 for conduit plan.

Drawing RES SUB-018.0: Typical Street Cross Section for Electrical Distribution (Padmount)

June 1, 2019
Drawing RES SUB-019.0: URD Transformer Pad Conduit and Template Installation, for 12kV System
Modesto Irrigation District
Application for Residential Subdivision Engineering

Date: 6/30/2014
Name of the Development: Browns Garden
Number of Lots: 123
Location of the Development: 1231 Sample Drive
Modesto, CA 95353

Civil Engineering Firm: Sample Engineering
Modesto, CA 95352

Estimated Rough Grade Start Date: 8/21/2014
Ready for Utility Date: 12/31/2014
Developer’s Representative Name: John Doe
Address: 5419 Sample Ct
Modesto CA 95357
Phone No. (209) 531-1111

(Note: Developer’s representative must have the authority to act as a responsible agent for said developer.)

All substructure/conduit shall be installed by the developer and be in compliance with all District specifications and standards. The District shall provide basic electric service from a pad-mounted transformer* at $1,300 per lot. An optional submersible type transformer** can be requested at an additional cost of $6,900 per transformer location.

Check One: ☑ Pad-mount Transformer*
* - Not Available in Ripon and Escalon area
☐ Submersible Transformer**
** - Not Available in Oakdale area

Square feet of Homes (give range): 1800-2300

A/C ☑ Heating ☑ Gas ☑ Heat Pump
Hot Water Heater: ☑ Gas ☑ Electric
Clothes Dryer: ☑ Gas ☑ Electric
Range: ☑ Gas ☑ Electric

Send completed application for engineering package to: Modesto Irrigation District
P.O. Box 4060
Modesto, CA 95352
Attn: Subdivision Engineering

To be completed by Modesto Irrigation District:
Complete Engineering Application Package Received Date: ___________ Received By: ___________
Work Order No. ___________ Date: ___________
Start Engineering Date: ___________ Complete Engineering Date: ___________

Go to http://www.mid.org/forms/ for the most current Application.
Modesto Irrigation District
Application for Residential Subdivision Engineering

Date: ____________
Name of the Development: ____________________________________________
Number of Lots: ____________
Location of the Development: ___________________________________________
____________________________________________________________________
Civil Engineering Firm: ________________________________________________
____________________________________________________________________
Estimated Rough Grade Start Date: ____________
Ready for Utility Date: ____________
Developer’s Representative Name: ________________________________________
Address: __________________________________________________________________
Phone No. (______) ____________________________________________________
(Note: Developer’s representative must have the authority to act as a responsible agent for said developer.)

All substructure/conduit shall be installed by the developer and be in compliance with all District specifications and standards. The District shall provide basic electric service from a pad-mounted transformer* at $1,300 per lot. An optional submersible type transformer** can be requested at an additional cost of $6,900 per transformer location.

Check One:  ☐ Pad-mount Transformer * ☐ Submersible Transformer**
* - Not Available in Ripon and Escalon area  ** - Not Available in Oakdale area

Square feet of Homes (give range): _______________________________________
A/C ☐  Heating: ☐ Gas ☐ Heat Pump  Hot Water Heater: ☐ Gas ☐ Electric
Clothes Dryer: ☐ Gas ☐ Electric  Range: ☐ Gas ☐ Electric

Send completed application for engineering package to:  Modesto Irrigation District
P.O. Box 4060
Modesto, CA 95352
Attn: Subdivision Engineering

To be completed by Modesto Irrigation District:
Complete Engineering Application Package Received Date: ____________  Received By: ____________
Work Order No. ____________  Date: ____________
Start Engineering Date: ____________  Complete Engineering Date: ____________
Form 2: Area Map
Service Guide Customer Input Form

The Modesto Irrigation District strives to provide excellent customer service. In an effort to improve our Service Guides, this form is provided so you can share your comments and suggestions. Please fill out this form and submit it with along with your comments. Please be as specific as possible. Once the form is complete, email the form to our Standards Department at electric.standards@mid.org, or mail the form to the Modesto Irrigation District office, attention Electrical Standards.

Modesto Irrigation District
Attn: Electrical Standards
PO Box 4060
Modesto CA, 95352-4060

Name: ___________________________ Date: ________________

Phone Number: _________________ Email: _________________________

Indicate which Service Guide your comments pertain to:

☐ Residential  ☐ Solar Photovoltaic
☐ Agricultural  ☐ Electric Vehicle
☐ Commercial and Industrial ☐ Residential Subdivision
☐ Temporary  ☐ Street Lighting and Miscellaneous

<table>
<thead>
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<th></th>
<th>Not Effective</th>
<th>Somewhat Effective</th>
<th>Effective</th>
<th>Very Effective</th>
<th>N/A</th>
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<tbody>
<tr>
<td>Organization of Service Guide</td>
<td>☐</td>
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Comments:  ____________________________________________________________

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