



LODI CITY COUNCIL

Carnegie Forum
305 West Pine Street, Lodi

"SHIRTSLEEVE" SESSION

Date: October 29, 2013

Time: 7:00 a.m.

For information regarding this Agenda please contact:

Randi Johl-Olson

City Clerk

Telephone: (209) 333-6702

NOTE: All staff reports or other written documentation relating to each item of business referred to on the agenda are on file in the Office of the City Clerk, located at 221 W. Pine Street, Lodi, and are available for public inspection. If requested, the agenda shall be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in implementation thereof. To make a request for disability-related modification or accommodation contact the City Clerk's Office as soon as possible and at least 24 hours prior to the meeting date.

Informal Informational Meeting

- A. **Roll Call by City Clerk**
- B. **Topic(s)**
 - B-1 Lodi Electric Utility Module Report (EU)
- C. **Comments by Public on Non-Agenda Items**
- D. **Adjournment**

Pursuant to Section 54954.2(a) of the Government Code of the State of California, this agenda was posted at least 72 hours in advance of the scheduled meeting at a public place freely accessible to the public 24 hours a day.

Randi Johl-Olson
City Clerk



CITY OF LODI COUNCIL COMMUNICATION

TM

AGENDA TITLE: Lodi Electric Utility Module Report

MEETING DATE: October 29, 2013

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: Receive Lodi Electric Utility module report.

BACKGROUND INFORMATION: Lodi Electric Utility (LEU) is dedicated to supplying the community with safe, reliable electric service at the lowest possible rates. LEU staff strives to do this while accommodating individual customer concerns without sacrificing the best interests of all its ratepayers/customer-owners.

This report will provide the City Council with current electric utility industry requirements as mandated by federal, state and local regulations; current standards and practices to ensure safe, reliable delivery of electricity; LEU's 12 kV Maintenance Programs; LEU vs. customer requirements; other electric utility practices; LEU communication protocols; and several supporting photographs.

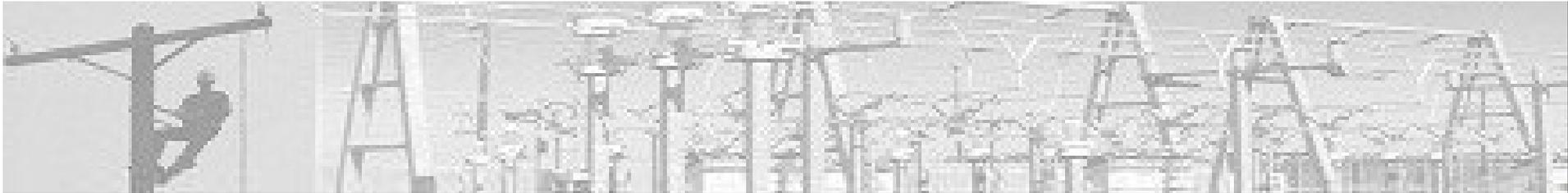
FISCAL IMPACT: Not applicable.

FUNDING AVAILABLE: Not applicable.

Elizabeth Kirkley
Electric Utility Director

EK/lst

APPROVED: _____
Konradt Bartlam, City Manager



City Council Shirtsleeve Session

October 29, 2013

LEU Modules (aka “Green Boxes”)

City of Lodi Electric Utility

Your Community Owned Utility Since 1910



Lodi Electric Utility Modules

- Regulations
- Safety
- Reliability
- LEU 12 kV Maintenance Programs
- LEU vs. Customer Requirements
- Other Electric Utility Practices
- LEU Communication Protocols
- Photos



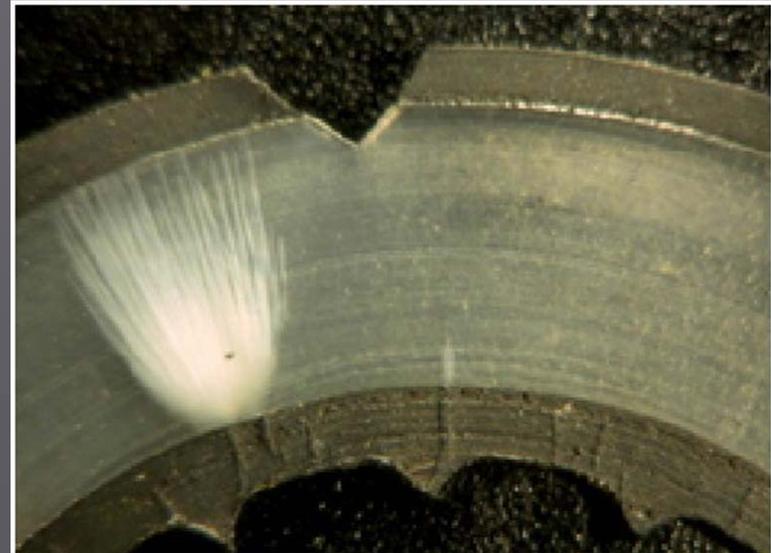
Regulations

- California Public Utilities Commission (CPUC) General Orders
 - Overhead: GO 95
 - Underground: GO 128
 - Inspections: GO 165
 - Emergencies / Disasters: GO 166
 - Substations: GO 174

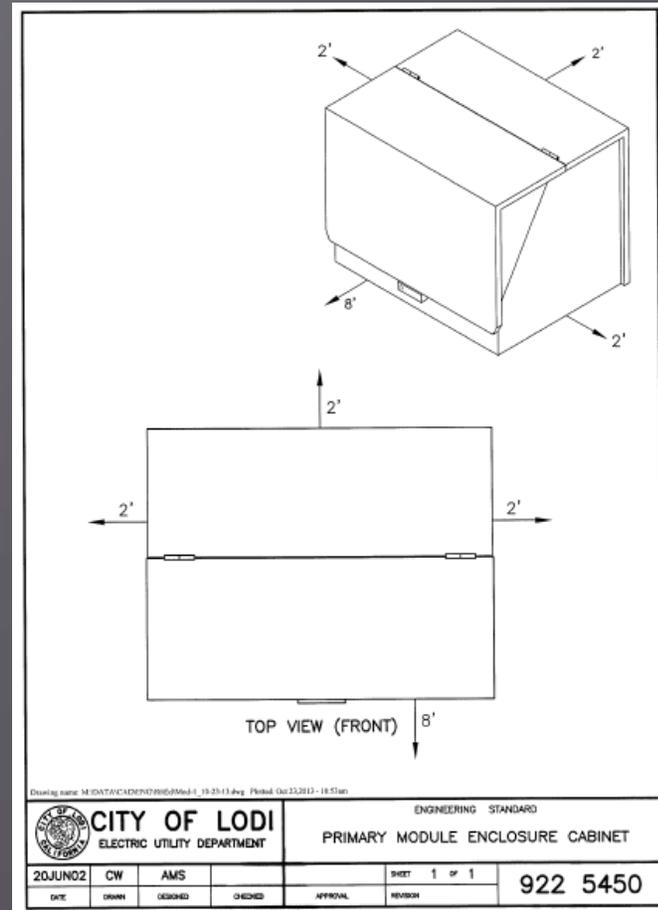
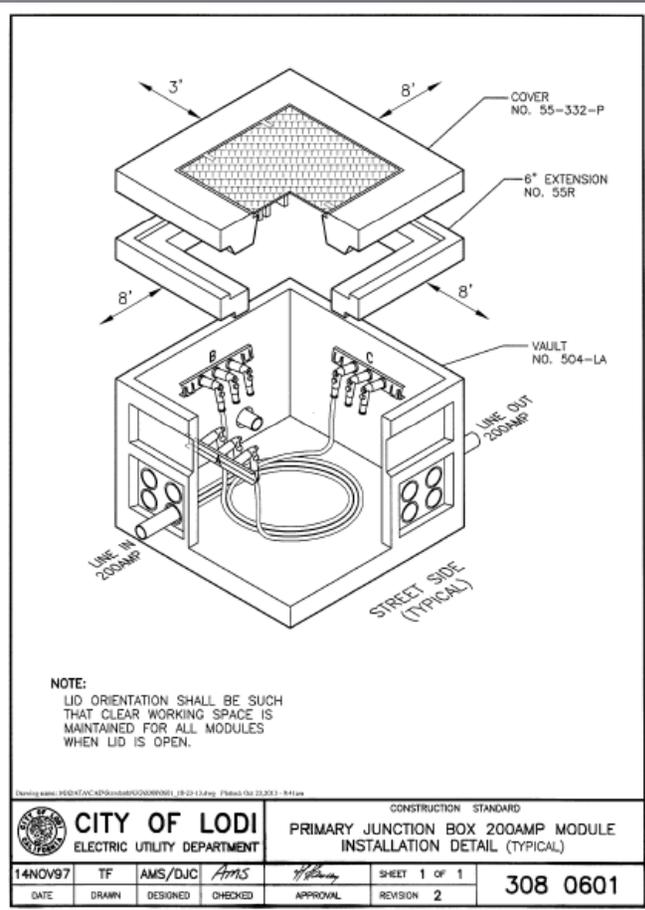


Safety

- Underground vaults submersed in liquid
 - Insulation breakdown
 - Treeing effect
- Clear working space
 - Vaults
 - 8' three sides (3' hinge)
 - Modules
 - 8' one side (2' sides & back)
 - Arc flash hazard
 - <http://www.youtube.com/watch?v=-iCIXrd50Z8>



Vault vs. Module Access



Reliability

- American Public Power Association RP₃ recommendation system betterment
 - Mitigates outages
 - Faster outage restoration
- Other option: overhead construction



Your Community Owned Utility Since 1910

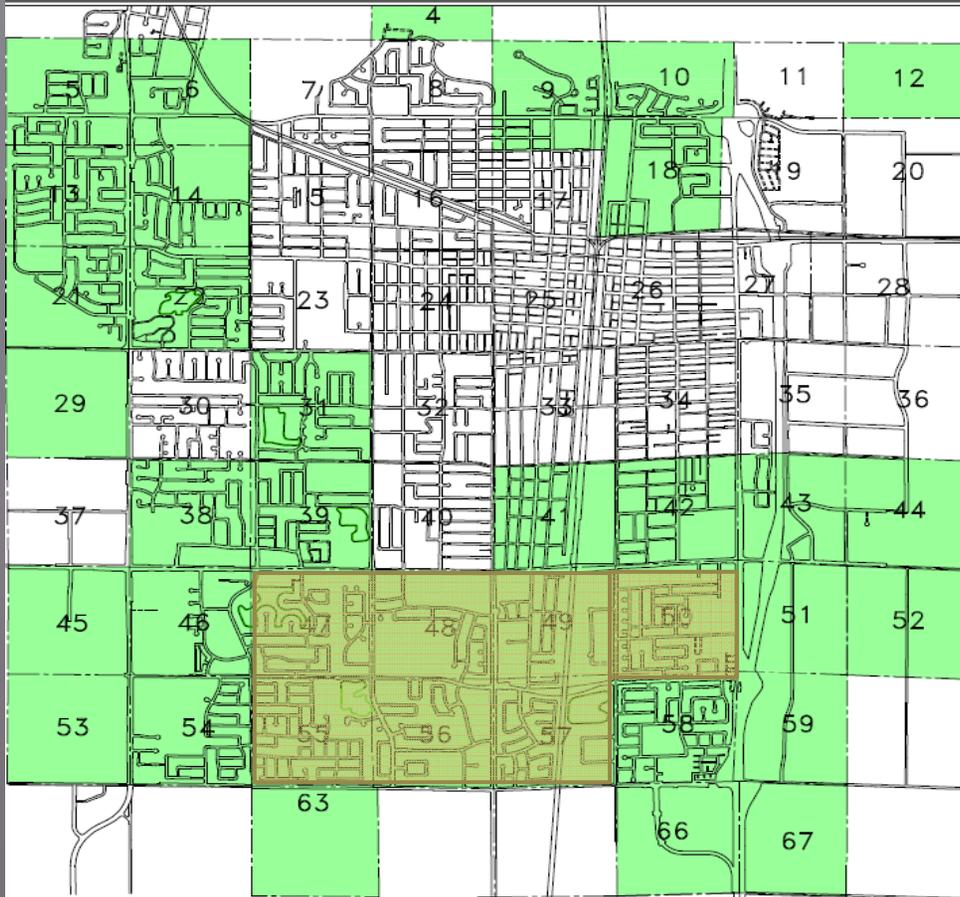


LEU 12 kV Maintenance Programs

- Began FY 2011-2012
- Patrols – 100% annually
- Inspections – 20% every year
- Replacements / Upgrades – as needed
- Overhead
 - Poles, conductors, transformers, etc.
- Underground
 - Vaults, cables, transformers, etc.



LEU 12 kV UG Maintenance



- Vaults → Modules
 - Grid-by-grid
 - As needed outages
 - To date: 30
 - 12 → 2 / parcel
 - Remaining: ~200
 - ~50-60 → 2 / parcel

LEU vs. Customer Requirements

Utility Requirements

- Safety
- Reliability
- Compliance
 - Federal
 - State
- Most economical
- Communicate
 - City Council
 - Customer-owners

Customer Requirements

- Permit application
 - New electric service
 - Upgrade electric service
- Protect own equipment

WARNING
Hazardous voltage.
KEEP OUT!
Can shock, burn or cause death.
If found damaged, open or unlocked call:
City of Lodi Electric Utility Dept.
(209)-333-6767

WARNING
Underground power cables
are located in this area.
Before digging call:
City of Lodi Electric Utility Dept.
(209) 333-6767
Can shock, burn or cause death.

NOTICE

We need room to work safely on this device. Please keep shrubs and structures 8 feet away from the side with doors and 2 feet from other sides. Obstructions may be damaged or removed during service restoration or maintenance.

NON-PCB

Other Electric Utility Practices

- ⦿ Upgrading to above ground modules
 - Alameda
 - Roseville
 - Santa Clara
 - SMUD
 - Ukiah
- ⦿ None have received customer complaints

LEU Communication Protocols



**Your Electric
Utility Service**

**SORRY WE MISSED YOU!
TODAY'S DATE _____**

We want to inform you that:

- Your electric power will be off:

Date: _____

From: _____ To: _____

- Your electric power was turned off:

From: _____ To: _____

in order for us to perform our work.

- We will be replacing the utility pole on:

Date: _____

From: _____ To: _____

- We will be replacing the transformer on:

Date: _____

Time: _____

If you have any questions, please call

368-5735

CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

EUD-001 (REV. 10/96)

**Su Servicio
de Electricidad**

**LAMENTAMOS NO
HABERLO ENCONTRADO!
FECHA _____**

Queremos informarle que:

- Su servicio electrico será interrumpido:

Fecha: _____

Desde: _____ Hasta: _____

- Su servicio electrico ha sido interrumpido:

Desde: _____ Hasta: _____

para poder hacer reparaciones
electricas necesarias en el area.

- Reemplazaremos el poste electrico:

Fecha: _____

Desde: _____ Hasta: _____

- Reemplazaremos el transformador:

Fecha: _____

Hora: _____

Si Tiene preguntas por favor llame al telefono:

368-5735

Departamento de Servicio Electrico de la
ciudad de Lodi

EUD-001 (REV. 10/96)

- Non-emergency work
- 24-48 hours notice
- Planned outage
- Repair existing equipment
- Verbal contact
 - Working on their property
- LEU Door Hanger



LEU Communication Protocols

Print double sided on bright-colored card stock



City of Lodi

Notice of Construction
(Español en el otro lado)

Project Name _____

Description of work to be performed: _____

Date of Construction: _____

How this work affects you:

- On Street Parking
- Traffic Access
- Sidewalk Access
- Water Service Interruption
- Sewer Service Interruption
- Electric Service Interruption
- Other _____

Additional Information: _____

Contractor Contact: _____

Contractor's Name: _____

Job Superintendent's Name: _____

Phone Number: _____

Email: _____

City Contact: _____

Name: _____

Department: _____

Phone Number: _____

Email: _____

We appreciate your cooperation and understanding while we work to improve your community or neighborhood.



City of Lodi

Aviso de Construcción
(English on back)

Nombre del Proyecto _____

Descripción de trabajo realizado: _____

Fecha de Construcción: _____

¿Como le afecta este trabajo?:

- Estacionamiento en Calle
- Acceso de Tráfico
- Acceso al Acera
- Interrupción de Servicio Agua
- Interrupción de Servicio Alcantarilla
- Interrupción de Servicio Eléctrico
- Otro _____

Más Información: _____

Información de Contacto- Contratista: _____

Nombre del Contratista: _____

Nombre del Superintendente: _____

Número de telefono: _____

Correo Electrónico: _____

Información de Contacto de la Ciudad: _____

Nombre: _____

Departamento: _____

Número de telefono: _____

Correo Electrónico: _____

Le agradecemos su cooperación y comprensión mientras trabajamos para mejorar su comunidad o vecindario.

- City-wide 3rd Party Contractor door hanger
- Directional boring contractor's use
- Business Development Manager for large projects

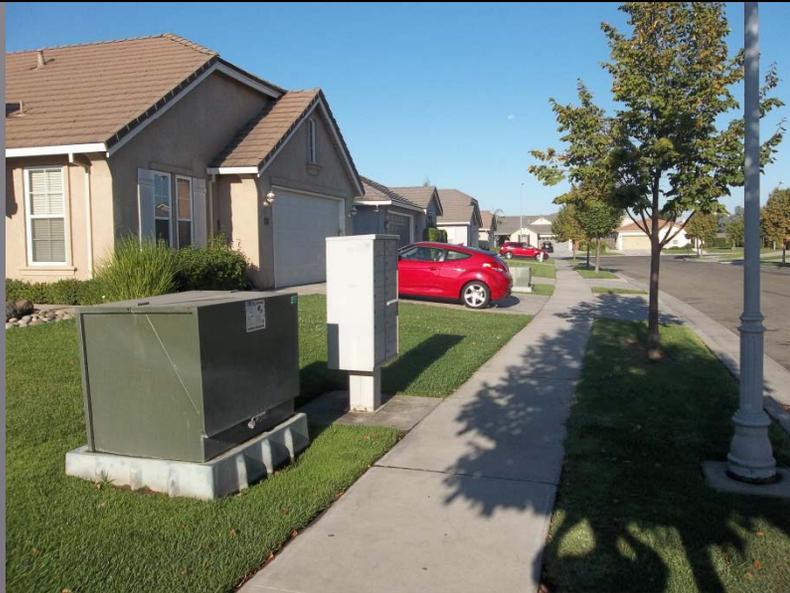


Before & After Photos



Equipment submersed in water vs. safe & accessible in module

Modules and Other “Boxes”



Your Community Owned Utility Since 1910



Transformer and Module



Transformer and Module
1609 Barkley Lane
Grid 39



Transformer and Module
1851 Chablis Drive Grid 47



Grid 39
Transformer and Module
1614 Bird Lane



Transformer and Module
2215 Heavenly Way Grid 54

Your Community Owned Utility Since 1910



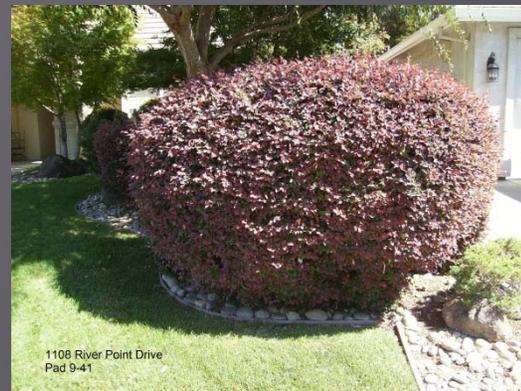
1749 Lakeshore Drive



Your Community Owned Utility Since 1910



LEU Equipment Blocked



Your Community Owned Utility Since 1910



LEU Equipment Blocked



Your Community Owned Utility Since 1910



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