



**Asia-Pacific
Economic Cooperation**

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Electrical Installation Inspection in the United States

Submitted by: United States



**Joint Regulatory Advisory Committee on
Electrical and Electronic Equipment
Meeting with Industry
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ELECTRICAL INSTALLATION INSPECTION IN THE UNITED STATES

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Electrical Installation Inspection United States

- **Organization(s) responsible**
 - Private inspection agencies – contract agreement with government agency
 - Government inspection agencies –
Federal – State – County –
Municipal

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- **What requirements are used?**

National Electrical Code®

Local Amendments to NEC

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- **Public or private sector**

Public sector authority – Inspection or authority for inspection

Private sector support – Performs inspections on behalf of government

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- **Voluntary or mandatory**

Mandatory in some jurisdictions

Voluntary in some jurisdictions

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- **Who pays for the inspection?**

Normally the electrical contractor

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- **What requirements used?**

National Electrical Code®

Local amendments to the NEC

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- **What arbitration or dispute settlement process?**

Appeals Boards

Courts of Law

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- How is it done; is there a prescribed process?

Administrative Rules establish the procedures

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- **Visual inspection?**

One or More Visual Inspections

Plans check

Rough-in

Final

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- **Measurements made as a part of the inspection process?**

Verification to plans, specifications
and the electrical code

Test equipment

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- **Frequency of inspection during construction**

Depends on the job

- Small repair – possibly one
- Large job - multiple

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- **Any on-site testing?**

Limited amount of on-site testing by inspector: GFP – GFCI, AFCI, etc.

Field evaluations by testing labs

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- **Does product certification help the process?**

Product certification provides information for the inspector as to the use of the equipment or material and ensures that the equipment meets minimum design standards

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- **Who is recognized as product certifier?**

Those identified by statute or ordinance

- NRTLs by OSHA
- Specific independent testing labs

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- **Any inspection on modification projects?**

- Generally all modifications except minor changes or maintenance

Electrical Installation Inspection:
Enforcement
United States

- **Legal penalties applicable**

- Loss of licenses
- Fines
- Other penalties

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Enforcement
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- **Requirements to get electrical service from the utility**

- Generally a release by the authority having jurisdiction

Electrical Installation Inspection:
Enforcement
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- **Record keeping requirements**
 - Is determined by law and administrative rules
 - Permits, plans, inspection records, etc.

Electrical Installation Inspection:
Expectations for the Future
United States

- ◆ **Changes taking place in the process**
 - Electronic:
 - Applications – inspections
 - Information access for inspector
 - International trade

Electrical Installation Inspection: Expectations for the Future United States

◆ Roles of local, state and federal governments

- Continued reliance on enforcement of construction codes - NEC
- Continued reliance on third party independent testing laboratories
- More involved in international affairs

THANK YOU

Questions?

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