**e. Electrical Inspection** (both types 50% and final) (Jan23 2014 T.Edwards)

What is it:

Inspection by AHJ (Authority having Jurisdiction) to ensure that construction meets all applicable standards according to the National Electric Code

Who is involved:

* Architect/engineer – provides design drawing for construction and submits them to the State of Michigan for plan review (classrooms and dormitories) and electrical inspection.
* Contractor required for electrical permit if required.
* Classrooms and dormitories – Electrical inspector provides 50% and final inspections.
* All other spaces- WSU Electrical inspector provides 50% and final inspection.
* Customer – needs to be notified of any test of the system.

Forms:

* Forms are completed by A/E and sent with full set of drawing & specifications to the State of Michigan Bureau of Construction for plan review.
* WSU PM is responsible to coordinate review of project with appropriate electrical inspector for 50% completion and substantial completion.

How/Process:

Authority having Jurisdiction

* Classrooms and dormitories- State Of Michigan Electrical Inspector.
* The WSU electrical inspector is responsible for all other buildings on campus.

Whenever modifications are being made to the following systems the Electrical Inspector must review and inspect:

* Service
* Distribution
* Power
* Lighting
* Fire pump
* Grounding
* Fire alarm system (Electrical)
* Dampers
* Site lighting
* Generators

Items to remember:

* If the project is going to have a phased occupancy each phase will have to be inspected independently.
* Classroom buildings cannot be inspected before 8 am or after hours.

Role of electrical inspector:

* Classrooms and dormitories – State Of Michigan Electrical Inspector provides review and inspections.
* The WSU electrical inspector offers oversight coordination and inspects all other buildings.

Classrooms and residence hall

Plan Review

Signed and sealed drawings and a plan review fee must be submitted to the **Department of licensing and Regulatory Affairs, Bureau of Construction Codes (BCC) Plan Review Division** inLansingin order to startthe reviewprocess. The architect on the project must submit the drawing and specifications and all bulletins and addenda to the State. The plan reviewer will send written review to the architect. Be sure to have the architect send you a copy. All items listed on report must be addressed either by the architect or at the time of inspection. The plan reviewer will list whether an electrical plan review will be required. The project will require Electrical inspection.

All other buildings:

The WSU electrical inspector will perform all inspections and acceptance tests for buildings that do not fall under the BCC.

Checklist:

The items required for final inspection if applicable to your project are:

* The approved set of electrical drawings
* Electrical specifications
* The electrician must be present
* The general contractor should be present

Timeline consideration

The inspector will visit the site two times:

* 50% Inspection (rough or above ceiling)
* 100% inspection
* It is the project managers, or authorized generator contractor and/or electrical contractor’s responsibility to schedule these visits. The project manager must verify that the contractor is ready for the inspections.

Filling

* 5.0 close out – inspection

Refer to other sections/documents:

* Retail Projects section for special instruction