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**Field Observation Report Number:** Morristown, NJ

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To:	David Levo	Today's Date:	1/20/2012		
From:	Edward Hesselbacher	Sheet:	1 of 2	Date of Visit:	12/7/10
Project:	WPU Academic Zone Master Plan	Trade:	Electrical		
Project No.:	WPU01000	Site Contact:			

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General

- a) The fire alarm systems for all associated buildings were installed approximately ten years ago.
- b) Each building has a fire alarm connection to a central monitoring location on-campus.
- c) The campus fire alarm system is manufactured by Simplex.
- d) The electrical utility serving the university is PSE&G.

Coach House

- 1. Electric service is at 120/208V with a rated ampacity of 400A. The service originates from the switchgear in the facilities building where a meter is provided.
- 2. The main electric service terminates on a wiring trough. From the wiring trough there is a distribution panel that serves additional panels as well as a 250 Amp UPS system that is not used.
- 3. The electric service is in excess of 50 years old. Facilities services reports difficulties replacing parts for most of the equipment.
- 4. The main service equipment is in a set-back closet in a room which makes maintenance challenging.

Hunziker Hall - Wing

- 1. The buildings are served by an exterior pad mounted 1500KVA transformer. The building receives a 277/480V service with a rated ampacity of 2500A.
- 2. The main switchboard lineup includes a 750KVA transformer which steps down the voltage from 277/480V to 120/208V. The switchboard lineup was installed less than 10 years ago and is in good condition.
- 3. From the switchboard lineup there is distribution to panels throughout the building. With the exception of the equipment in the computer lab, the equipment is very old.
- 4. There is a natural gas powered 150KVA emergency generator which serves the computer lab. The generator was installed in 2004 and is in good condition.
- 5. A Simplex 4020 fire alarm system serves the building with horn/strobes, pull stations and photo electric type smoke detectors. The fire alarm system is in good condition.



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Raubinger Hall

1. The building is served by an exterior 700KVA pad mounted utility transformer.
2. The service is at 120/208V with a rated ampacity of 3000A.
3. The fire alarm system is a fully addressable Simplex 4020 system
4. The electric distribution was replaced on the 4<sup>th</sup> floor 5 years ago and is in good condition.
5. Floors 1, 2 and 3 are old and in poor condition.

Shea Center for Performing Arts

1. The building is served by an exterior 500KVA pad mounted utility transformer.
2. The service is at 120/208V with a 2000A rating.
3. There is a 30KVA isolation transformer to provide clean power to the performance area.
4. The main service and performance area are in good condition having been recently replaced.
5. The electric service in the rest of the building is in poor condition.
6. The fire alarm system is a Simplex 4010 system. Facilities recommends replacing the system with a 4100 system.

Wightman Gym

1. Electric service is at 120/208V with a rated ampacity of 1200A. The service originates from the switchgear in the facilities building where a meter is provided.
2. The electric service is old and in poor condition. Facilities experiences difficulties replacing parts.
3. All power to the pool area has been provided with Ground Fault Protection.
4. The fire alarm system is a Simplex 4010 system. Facilities recommends upgrading to a system with addressable photo-electric type detectors.