

# THE CITY OF PAINESVILLE, OHIO

## UTILITIES DEPARTMENT ELECTRIC DIVISION MONTHLY REPORT FOR MAY 2011

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### (I) OVERVIEW:

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The Electric Plant had a fair month even though we had only one boiler and turbine on line at any one time and we had 219 hours during the month when we had nothing running. Even with the extended downtime during the month the plant was able to generate 6,270,900 KWH. During the last half of the month the temperature started its spring/summer warming trend our peak demand during the month increased by 12.9% compared to May of last year.

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### (II) PROJECTS / ACTIVITIES :

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The maintenance personnel in the generating plant completed the following:

- Finished calculating Arc Flash conditions for the plant circuits and switchgear.
- Finished replacing the circulating water cooling lines to the #7 T/G hydrogen coolers.
- Finished modifying the old bulk acid storage shed for tow motor storage.
- Finished upgrading the electrical wiring and lighting in the City Parking Garage. (Except for stairwells and pole lighting on level seven)
- Continued #7 T/G Major Teardown and Inspection.
- Continued sorting and organizing Light Plant prints and files.
- Started inspecting / repairing / rewiring the emergency and exit lights in the plant.

In the Distribution Section, the line crews:

- Installed and removed electrical setup for International Cuisine.
- Completed revamp of transformers at Perkin's Restaurant.
- Assisted Water Pollution Control with fiber optic cable installation.
- Started relocation of transformer stock to the pole yard.
- Continued program of deleting old/obsolete transformers.

**THE CITY OF PAINESVILLE, OHIO**  
**May 2011**

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**(III) PROBLEMS/ OUTAGES:**

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May 2, 6:10 AM Put #5 Boiler and #7 T/G on line after superheater tube repairs.

May 13, 1:40 AM Took #5 Boiler and #5 T/G off line so the contractors could work on the #7 stop valve which was leaking; Equipment repaired and put back in service at 7:50 AM on 5/17.

May 13, 1:00 PM Lightning stuck the express tie line between the substation and the plant; Tripped circuits H-2, H-6, and all low voltage circuits; Approximately 1500 customers out of power; All service restored by 1:35 PM.

May 14, 3:12 PM H-6 circuit tripped due to wind/lightning storm; Approximately 700 customers out of power; Circuit reclosed at 7:15 PM; Wires repaired and all remaining customers restored by 4:45 PM.

May 16, 5:15 AM H-4 and H-10 circuits tripped due to a limb across the primaries of H-4 circuit near LEC; Approximately 1600 customers out of power; Branch removed and all service restored by 5:45 AM

May 24, 1:30 AM H-4 and H-10 circuits tripped due to a limb across the primaries on West Eagle; Approximately 1600 customers out of power; Branch removed and all service restored by 3:30 AM

May 25, 7:30 PM Circuit #6 tripped when large tree came down during wind storm and broke several poles; Approximately 800 customers out of power; Damage area isolated and circuit closed at 7:35 PM; Damage repaired and all customers restored by 12:45 AM.

May 27, 4:15 PM Took #5 Boiler and #5 T/G off line for Holiday weekend in anticipation of low loads and low power prices; All equipment returned to service at 7:00 AM on 5/31.

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**(IV) GENERATION SUMMARY:**

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Gross Generation	7,294,000 KWH
Plant Use (-)	<u>-1,023,100 KWH</u>
Net Generation	6,270,900 KWH

Peak Demand = 48,300 KW at 4:00 PM on the 31<sup>st</sup>

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**(V) FUEL SUMMARY:**

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Coal Burned in #5 Boiler	3,631.42 Tons
Coal Burned in #4 Boiler	0 Tons
Coal Burned in #3 Boiler	0 Tons

**Respectfully Submitted,**



**Thomas A. Green, PE**  
**Electric Power Supt.**

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**(IV) ENERGY SUMMARY:**

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Gross Generation	7,294,000 KWH
Plant Use (-)	<u>-1,023,100 KWH</u>
Net Generation	6,270,900 KWH
AMP-O Power (+)	17,520,000 KWH
MISO Pool (+/-)	-3,927,300 KWH
Sales by Amp-Ohio	0 KWH
Gross Energy to System	19,863,600 KWH
Est. Line Losses (6%)	<u>-1,191,800 KWH</u>
Net Energy to System	18,671,800 KWH

Peak Demand = 48,300 KW at 4:00 PM on the 31<sup>st</sup>

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**(V) COST SUMMARY:**

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Purchased Power Cost	\$766,257.26
Fuel Cost	<u>\$228,222.03</u>
TOTAL	\$994,479.29

**Respectfully Submitted,**



**Thomas A. Green, PE**  
**Electric Power Supt.**