

**VILLAGE PRESIDENT**  
Ray Danford

**VILLAGE CLERK**  
Jerry Menard

**VILLAGE TRUSTEES**  
Mike Blaies  
Steve Smith  
Tony Miller  
Rita Baker  
Seth Speiser  
Charlie Mattern

# VILLAGE OF FREEBURG

**FREEBURG MUNICIPAL CENTER**  
14 SOUTHGATE CENTER, FREEBURG, IL 62243  
PHONE: (618) 539-5545 • FAX: (618) 539-5590  
Web Site: www.freeburg.com

**VILLAGE ADMINISTRATOR**  
Dennis Herzing

**VILLAGE TREASURER**  
Bryan A. Vogel

**PUBLIC WORKS DIRECTOR**  
Ronald Dintelmann

**POLICE CHIEF**  
Melvin E. Woodruff, Jr.

**VILLAGE ATTORNEY**  
Weilmuenster Law Group, P.C

April 12, 2011

## NOTICE

### MEETING OF THE ELECTRIC COMMITTEE (Blaies/Smith/Miller)

An Electric Committee Meeting of the Village of Freeburg will be held at the Municipal Center, Executive Board Room, **Thursday, April 14, 2011, at 5:30 p.m.**

### ELECTRIC COMMITTEE MEETING AGENDA

#### I. Items To Be Discussed

##### A. Old Business

1. Approval of March 9, 2011 minutes
2. Switchover of Ameren to Freeburg power
3. Village of Freeburg utility needs analysis
4. Replacement of old power plant doors
5. Franchise Fee (Ameren)
6. Highway lighting
7. HAPS
8. Contaminated Fuel in Generators
9. Lightning strike at old power plant
10. Fuel Cost Adjustment
11. Ameren Automated Metering
12. Arc Flash Study
13. Sale of scrap material/surplus material
14. Unisom purchase of cell tower
15. Spill containment/Wiegmann's expansion
16. Chubb Insurance Inspection
17. Digger truck repairs

##### B. New Business

##### C. General Concerns

##### D. Public Participation

##### E. Adjourn

At said Electric Committee Meeting, the Village Trustees may vote on whether or not to hold an Executive Session to discuss the selection of a person to fill a public office [5 ILCS, 120/2 - (c) (3)], litigation [5 ILCS, 120/2 - (c)(11)] personnel [5 ILCS, 120/2 - (c) (1) a.]; or real estate transactions [5 ILCS, 120/2 - (c)(5)].

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## ELECTRIC COMMITTEE MEETING Thursday, April 14, 2011 at 5:30 p.m.

The meeting of the Electric Committee was called to order at 5:30 p.m. on Thursday, April 14, 2011 by Chairman Mike Blaies. Committee members present were Chairman Mike Blaies, Trustee Steve Smith, Trustee Tony Miller, Public Works Director Ron Dintelmann, Assistant Public Works Director John Tolan, Village Administrator Dennis Herzing and Office Manager Julie Polson. Guests present: Ray Matchett and Janet Baechle.

### A. OLD BUSINESS:

1. Approval of March 9, 2011 minutes: Trustee Steve Smith motioned to approve the March 9, 2011 minutes as amended and Trustee Tony Miller seconded the motion. All voting aye, the motion carried.

2. Switchover of Ameren to Freeburg power: Dennis said we only have Pete Vogel to get ready for switchover. Parrish, Koerber and the nursing home are ready. Once Vogel is ready, we will switch them over at the same time. Dennis had Dean Park come up with a rate to track the special rate Ameren charged their electric-only customers. He provided a copy of the proposed ordinance which establishes the new Rate 6 which is available only to former AmerenIP customers on or after November 30, 2010; they must also be an electric-only customer and have an annual average usage of more than 15,000 kw-hr. Also included in this ordinance is the newly formed Rate 7 which provides the same rate break for the three-phase services that were switched over. Dennis thinks we may have approximately 10 customers this may affect. Ron said there will come a time when Ameren will get rid of this rate and at that time, we will do the same.

Trustee Steve Smith motioned to recommend to the full Board the Ordinance adding Rates 6 and 7 for approval and Trustee Tony Miller seconded the motion. all voting aye, the motion carried.

3. Village Utility Needs Analysis: Not discussed.

4. Replacement of old power plant doors: John said the doors were ordered two weeks ago and it will take 6 - 8 weeks to get them in.

5. Franchise Fee (Ameren): Nothing new on this topic.

6. Highway lighting: Nothing new.

7. HAPS: Ron said the housing in units 10 and 11 have been completed but are not yet operational. He also said unit 12 will be back in service tomorrow or Monday. Units 6, 8 and 9 will have the mufflers replaced due to the height and size of pipe.

After that, we will go on hold until the fall because we need to have the units operational during the peak summer months.

8. Contaminated Fuel in Generators: John said he had Bob Jenkins call to advise Dave Schmidt we need the generator back soon as we are fast approaching storm season.

9. Lightning Strike at old power plant: Done, item can be taken off the agenda.

10. Fuel Cost Adjustment: Dennis said with the rough calculations he did, there is not a significant savings. He wants to talk to Dean Park about it after reviewing it some more. Ron said the street lights will be put on our electric system map by BHM&G.

11. Ameren Automated Metering: Dennis said the agreement was put together with some suggestions and changes. He suggested an onsite meeting with Ameren to confirm the addresses for the exact poles they want to use. Mike suggested we tag them.

Dennis asked that we get Kentucky Data Link on the agenda. They are the company that has approached the Village asking to attach fiber to our poles. Their attorneys are reviewing the contract.

12. Arc Flash Study: BHM&G's agreement was included in the packet. Dennis will confirm the prices in the contract are the ones for Freeburg since Mascoutah is mentioned in the contract. He will get a revised agreement from them. The cost for the arc flash study will run between \$30,000 - \$45,000 with an additional \$8,000 - \$10,000 for the West Wastewater Treatment Plant.

*Trustee Tony Miller motioned to recommend BHM&G's Arc Flash Study corrected agreement at a cost not to exceed \$50,000 for approval and Trustee Steve Smith seconded the motion. all voting aye, the motion carried.*

13. Sale of scrap material: Ron was advised by Verbal Blakey that we may want to keep some of the engine parts as we may be able to use them for emergency purposes. T&R took 14 of the transformers and scrapped them. Solomon picked up 42 transformers. Ron said we purchased some concrete vessels from Kohnen Concrete that will be put at the north power plant to store the new transformers that were recently purchased.

14. Unisom purchase of cell tower: Dennis said the Unisom representative will be here next month.

15. Spill containment/Wiegmann: On hold for now.

16. Chubb Insurance Inspection: Ron said the information was sent to the insurance company. IMEA has an infrared gun that we will use to do that testing. We will also do the oil test.

17. Repairs to Digger Truck: Done as of today. Item can be taken off the agenda.

**B. NEW BUSINESS:** Ron said IMEA will now be picking up old refrigerators free of charge. This replaces the light bulb program.

Dennis advised the committee HD Supply had a corporate representative in charge of safety here. He conducted a safety audit for the electric department. He will give us a summary of what we need along with a quote to provide the needed items. Dennis said this is the first time we've done this. Ron said they do conduct training at no charge.

**C. GENERAL CONCERNS:** Ron said IMEA will conduct URGE testing on June 21st with units 6,8 and 9 in the morning and 10, 11 and 12 in the afternoon.

**D. PUBLIC PARTICIPATION:** None.

**E. ADJOURN:** *Trustee Steve Smith motioned to adjourn at 6:42 p.m. and Trustee Tony Miller seconded the motion. All voting aye, the motion carried.*



Julie Polson  
Office Manager

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ELECTRIC COMMITTEE MEETING  
Wednesday, March 9, 2011 at 5:30 p.m.

VILLAGE ADMINISTRATOR  
Dennis Herzing

VILLAGE TREASURER  
Bryan A. Vogel

PUBLIC WORKS DIRECTOR  
Ronald Dintelmann

POLICE CHIEF  
Melvin E. Woodruff, Jr.

VILLAGE ATTORNEY  
Weilmuenster Law Group, P.C.

The meeting of the Electric Committee was called to order at 5:30 p.m. on Wednesday, March 9, 2011 by Chairman Mike Blaies. Committee members present were Chairman Mike Blaies, Trustee Steve Smith, Trustee Tony Miller, Village Administrator Dennis Herzing and Assistant Public Works Director John Tolan. Guests present: Ray Matchett and Jane Kramper (entered late).

## A. OLD BUSINESS:

1. Approval of February 8, 2011 minutes: *Trustee Steve Smith motioned to approve the February 8, 2011 minutes and Trustee Tony Miller seconded the motion. All voting aye, the motion carried.*

2. Switchover of Ameren to Freeburg power: Dennis explained that we were unaware Ameren had a special electric rate for all electric homes which they don't offer to new customers anymore. Apparently, all customers that had that rate were allowed to stay on it. Ray brought in a year of bills and Dennis went through them and said in the winter the bills almost doubled. He has forwarded this information to Mike Gennin at IMEA who is looking it over. Dennis wants to set up a meeting with him and Dean Park. He thinks we may have to set up a special rate class to help these people out. Steve asked for how long and Dennis said he wants to have input from Mike and Dean on this. Dennis said we almost match up on the billing over the summer months. Dennis has told the office staff if customers call and complain, to have them bring in some of their previous Ameren bills. Dennis is hoping to be able to sort out who was on that special rate. Dennis may have Doc from IMEA contact Ameren corporate and see if they can tell us who had that special rate. He also wants them to find out how long that special rate is in effect. Dennis said that special rate only applies in the winter-time. He wants to come up with a rate that will be in line with the one Ameren had charged and for the same amount of time.

Dennis said we have counted 700 streetlights counted and calculated roughly with what Jane gave him from usage that it comes out to about an average of 75 kilowatt hours per unit - the small ones use 50 and the big ones use about 150. Using those numbers, our fuel factor for February would have been 0.0344 instead of 0.0359 which is about a .001 per kilowatt hour which is about \$2 per home for a typical 2000 kilowatt house. It won't make a huge difference on a normal bill. We had thought if it was a significant number, we could eat part of that cost but since it is not, it may not be worth pursuing. Dennis said the way Dean set up the fuel factor calculation is you take the kilowatt hours that you bill for divided by what you pay IMEA which gives you the cost per kilowatt hour, then you subtract out the base rate of 4.3¢ and what is left is your fuel factor. Dennis said the problem is that has been trending up as our costs from IMEA have been going up to the point where the fuel factor is getting up to 3 - 4 cents per kilowatt hour and our base rate varies from 6 - 8 cents

depending on how much you use which raises the electric rate 30 - 40%. John said we have four customers left to switch over.

3. Village Utility Needs Analysis: Not discussed.
4. Replacement of old power plant doors: We received bids from Dave Stein and Louis Word. Word's quote is only for 2 doors. Dennis said Dave Stein's bid looks reasonable. Dennis thinks Ron would like to give the job to Dave Stein. He did a great job at the East lagoon for us. This will satisfy the concerns of the Fire Department and insurance company. The committee agreed to go with Dave Stein's proposal.
5. Franchise Fee (Ameren): Nothing new on this topic.
6. Highway lighting: We will work on this after the switchover is complete.
7. HAPS: John said the catalytic converters will be shipped later this week.
8. Contaminated Fuel in Generators: We will call Dave Schmidt to check the status of it.
9. Lightning Strike at old power plant: Dennis said we are waiting on BHM&G's bill for the capacitors and should be done.
10. Fuel Cost Adjustment: Discussed above.
11. Ameren Automated Metering: Dennis said the pole agreement has been sent back with some changes. He has not had a chance to do that yet. They want to change the name of the entity. They did not raise a concern about the price. He will try to get to it within the next week. Dennis said they did send back a list of the exact poles they want to use. He thinks it is at least 12.
12. Arc Flash Study: Dennis received Statements of Qualifications from BHM&G and also Martin Technical. We did send them to RW Beck who is doing the HAPS work for IMEA but did not receive one from them. Dennis said both of these companies are qualified but he thinks BHM&G should do it because they know our system. They have conducted arc flash studies for several other IMEA communities. He thinks the cost will be around \$30,000 and said we don't have a choice - it needs to be done. Dennis said he and Ron will sit down with them and get a price worked out.
13. Sale of scrap material: John thinks some of the transformers have been picked up. Dennis said we received test results back and they tested clean. Julie sent out the information to the 3 companies to get bids on the scrap transformers.
14. Unisom purchase of cell tower: Dennis said the Unisom representative will be here next month. Tony said cell towers may be a thing of the past. He said there is something else out that you can put on the corner of a building that replaces the cell tower. Dennis said we'll see what the rep has to say at the next meeting.
15. Spill containment/Wiegmann: Dennis said we haven't done anything more on that. He wants to go through the budget again. We still need to talk to Wiegmanns.

16. Chubb Insurance Inspection: Mike asked if this was the annual inspection on the equipment. Dennis said Ron was getting some results from last year from BHM&G to forward to John Osseck. Dennis needs to check the status with Ron.

**B. NEW BUSINESS:**

1. Repairs to Digger Truck: Dennis said the turret in the digger truck is damaged and needs to be fixed. It is a big safety concern that needs to be addressed. Dennis said there is \$160,000 in the new budget to buy a truck. Even if we ordered a new digger truck today, it would be 8 months before we got it. John said this is the equipment we use when we need to set a pole. Dennis said it is obvious it is a major repair job because the quote states two men at 66 hours. Since this is such a safety concern, the committee agreed to have Terex start the repair work.

*Trustee Steve Smith motioned to recommend Terex Utilities repair the digger truck at a cost not to exceed \$15,000.00 and Trustee Tony Miller seconded the motion. All voting aye, the motion carried.*

**C. GENERAL CONCERNS:** None.

The annual EPA emission report came back fine. Copies of the report were provided to the committee.

**D. PUBLIC PARTICIPATION:** None.

**E. ADJOURN:** *Trustee Steve Smith motioned to adjourn at 6:30 p.m. and Trustee Tony Miller seconded the motion. All voting aye, the motion carried.*



Transcribed from tape by  
Julie Polson  
Office Manager



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. Box 19506, SPRINGFIELD, ILLINOIS 62794-9506 - (217) 782-2113

PAT QUINN, GOVERNOR

RECEIVED

APR 11 2011

217/782-2113

## CONSTRUCTION PERMIT -- NESHP SOURCE

### PERMITTEE

Village of Freeburg Power Plant  
Attn: Ron Dintelmann, Public Works Director  
14 Southgate Center  
Freeburg, Illinois 62243

Application No.: 11010030

I.D. No.: 163060AAF

Applicant's Designation:

Date Received: January 20, 2011

Subject: Catalytic Converter Systems for Six Existing Engines

Date Issued: April 6, 2011

Location: 412 West High Street, Freeburg (Old Plant)  
Intersection of Power Plant Lane & Peabody Road, Freeburg (New Plant)

Permit is hereby granted to the above-designated Permittee to CONSTRUCT catalytic converter systems on six existing engines, as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s)

#### 1. Introduction

- a. This permit authorizes installation of catalytic converter systems (the affected systems) on six existing diesel fired engines (the affected engines) to reduce emissions of carbon monoxide (CO) from the engines. Affected systems would be installed on three engines at the Old Plant (Engines 6, 8 and 9) and three engines at the New Plant (Engines 10, 11, and 12). The affected systems would be installed to comply with the applicable requirement of the National Emission Standard for Hazardous Air Pollutants (NESHP) for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63 Subpart ZZZZ (the engine NESHP).
- b. This permit does not authorize any modifications to the capacity or the potential emissions from the affected engines.

#### 2. Applicable Requirements

- a. This permit does not relax or revise any requirements and conditions that apply to the affected engines, including applicable monitoring, testing, recordkeeping, and reporting requirements in the current CAAPP permit for the source, Permit No. 95070019.
- b. In addition to the terms and conditions of the current CAAPP permit, for the affected engines, the Permittee shall comply with the applicable standard, operating, testing, monitoring, recordkeeping, and reporting and notification requirements of the engine NESHP for the existing non-emergency, non-black start compression ignition (CI) engine with capacity greater than 500 horsepower, as set forth in this permit.



- i. Pursuant to 40 CFR 63.6603(a), for the affected engines, the carbon monoxide (CO) emissions shall be reduced by at least 70 percent as specified in Table 2d, Item 3(b) of the Engine NESHAP.

Note: This permit is issued based on the source being an "area source" for emissions of hazardous air pollutants (HAPs), as defined by 40 CFR 63.6585(c), as it is not a major source for emissions of HAPs.

3. Non-applicability Provisions

- a. This permit is issued based on this project, i.e., the installation of the affected systems on the affected engines being an emissions control project, whose primary purpose is to reduce CO emissions and comply with the engine NESHAP, without any increase in emissions.
- b. The Illinois EPA has determined that this project, as described in the application, will not constitute a modification of the affected engines under the federal New Source Performance Standards, 40 CFR 60 because the affected systems have the primary function of reducing emissions and therefore, are not considered a modification pursuant to 40 CFR 60.14(e)(5).

4. Applicable Operating Limits and Requirements.

- a. Pursuant to the Engine NESHAP:

- i. Pursuant to 40 CFR 63.6603(a) and Table 2b of the Engine NESHAP, The Permittee shall operate the affected engines and the affected systems as follows:

- A. The pressure drop across the catalyst shall not vary by more than 2 inches of water at 100 percent load and shall be maintained within 10 percent from the pressure drop across the catalyst measured during the initial performance test; and
- B. Operate each affected engine such that the inlet temperature to oxidation catalyst system(s) is maintained between 450 and 1350 degrees F.

- ii. Pursuant to 40 CFR 63.6625(h), for each affected engine, the Permittee shall comply with the applicable requirement for the startup of an engine.
- iii. Pursuant to 40 CFR 63.6604, for each affected engine, the Permittee shall use fuel that meets the requirements in 40 CFR 80.510(b) for non-road diesel fuel.

- iv. Pursuant to 40 CFR 63.6605(b), the Permittee shall maintain and operate affected engines with affected systems, in a manner consistent with good air pollution control practice for minimizing emissions at all times, including during startup, shutdown, and malfunction.
- b. For each affected engine, the Permittee shall either install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, pursuant to 40 CFR 63.6625(g)(1) or install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist particulates and metals, pursuant to 40 CFR 63.6625(g)(2). These systems shall follow the manufacturer's specified maintenance requirements for operating and maintaining the systems and replacing the crankcase filters.
- c. Prior to the effective compliance date under the Engine NESHAP for the affected engines, the Permittee shall operate the engines with affected systems in accordance with the written operation and maintenance procedures, which may incorporate the manufacturer's written instructions for operation and maintenance of the engines, to minimize emissions.

5. Applicable Testing Requirements

- a. Within 180 days after the initial compliance date specified in 40 CFR 63.6595, the Permittee shall have applicable performance tests conducted as required by 40 CFR 63.6612(a) in accordance with the applicable requirements of Table 4 and 5 of the engine NESHAP, including;
  - i. Measure the O<sub>2</sub> at the inlet and outlet of the oxidation catalyst system. These measurements shall be made at the same time as the measurements for CO concentration made pursuant to Condition 5(a)(ii).
  - ii. Measure the CO concentration at the inlet and outlet of the oxidation catalyst system.
- b. Pursuant to the 40 CFR 63.6615, following the initial performance test for O<sub>2</sub> and CO, the Permittee shall perform subsequent performance tests and each subsequent test thereafter on following time schedules in accordance with Table 3 of the engine NESHAP.
  - i. For the affected engine(s) that is "not limited use stationary RICE", the subsequent test shall be performed every 8760 hours of operation or 3 years, whichever occurs first.

- ii. For the affected engine(s) that is "limited use stationary RICE", the subsequent test shall be performed every 8760 hours of operation or 5 years, whichever occurs first.

Note: Pursuant to 40 CFR 63.6675, "limited use stationary RICE" means any stationary RICE that operates less than 100 hours per year.

- c. Within 60 days of a written request from the Illinois EPA, or the date agreed upon by the Illinois EPA, whichever is later, the Permittee shall have emission tests conducted for the affected engines operating with affected systems, for NO<sub>x</sub>, CO, and VOM, by an approved independent testing service.

#### 6. Applicable Monitoring Requirements

- a. The Permittee shall install, operate and maintain a continuous parameter monitoring system (CPMS) for each catalytic converter system to measure inlet temperature of system in accordance with 40 CFR 63.6625(b). These temperature measuring devices must meet the requirements of 40 CFR 63.6625(k) (1) through (4).

#### 7. Applicable Recordkeeping Requirements

- a. The Permittee shall maintain all records required by the engine NESHAP for each affected engine pursuant to 40 CFR 63.6655, as applicable, including:
  - i. Copy of each notification and report required by the engine NESHAP.
  - ii. Records related to each malfunction of operation or the air pollution control and monitoring equipment.
  - iii. Records related to performance tests in accordance with 40 CFR 63.10(b) (2) (viii).
  - iv. Records related to maintenance performed on each catalytic converter system and monitoring equipment.
  - v. Records of any action taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including any corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
  - vi. Records described in 40 CFR 63.10(b) (2) (vi) - (xi) for each CPMS system.
- b. The Permittee shall maintain records of the following items for each affected engine:

- i. A file containing:
  - A. The model number, model year and serial number of each engine.
  - B. Data for the maximum hourly emission rates for NO<sub>x</sub>, CO, VOM, PM and individual HAP from the affected engines (lbs/hour), with supporting calculations.
- ii. An operating log, which shall include the following information:
  - A. Information for each time the engines are operated, with date, time, duration, and purpose (i.e., exercise or standby need).
  - B. Information for any incident in which the operation of the engines continued during malfunction or breakdown, including: date, time, and duration; a description of the incident; whether emissions exceeded or may have exceeded any applicable standard; a description of the corrective actions taken to reduce emissions and the duration of the incident; and a description of the preventative actions taken.
- iii. A maintenance and repair log, listing each activity performed with date.
- iv. The following operating records:
  - A. Records of the pressure drop of each oxidation catalyst system, recorded at least once per operating day.
  - B. Records of the inlet temperature of each oxidation catalyst, recorded at least once per operating day.
  - C. Amount of fuel used in each affected engine, including maximum sulfur content.
  - D. Operating hours of each affected engine (hours/month and hours/year).

8. Retention of Records

- a. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least five years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal

source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

9. Applicable Notification and Reporting Requirements

- a. For the affected engines and the affected systems, the Permittee shall comply with the applicable notification requirements under 40 CFR 63.6645 and applicable reporting requirements under 40 CFR 63.6650 of Engine NESHAP, as applicable.
- b. If there is a deviation of the requirements of this permit, not otherwise addressed pursuant to the reporting requirements of the NESHAP, the Permittee shall submit a report to the Illinois EPA within 30 days after deviation. The report shall include a description of the deviation, the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of steps taken to reduce emissions and future occurrences.

10. Addresses for Notification and Reporting

- a. Two copies of the required reports and notifications shall be sent to the Illinois EPA's compliance section at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

Telephone: 217/782-5811      Facsimile: 217/524-4710

and one copy shall be sent to the Illinois EPA's regional office at the following address:

Illinois Environmental Protection Agency  
Division of Air Pollution Control - Regional Office  
2009 Mall Street  
Collinsville, Illinois 62234

Telephone: 618/346-5120      Facsimile: 618/346-5155

11. Authorization for Operation

The Permittee may operate the affected engines with the affected systems pursuant to this construction permit until the CAAPP permit for the source is renewed or revised, that address them. This condition supersedes Standard Condition 6.

If you have any questions on this, please call Kunj Patel at 217/782-2113.

*Edwin C. Bakowski*

Edwin C. Bakowski, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

Date Signed: *April 6, 2011*

ECB:CPR:KMP:psj *KMP 4/6/2011*  
cc: FOS Region 3 *lu 4/6/2011*



STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL  
P. O. BOX 19506  
SPRINGFIELD, ILLINOIS 62794-9506

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS  
ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special condition(s).

Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.

The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.

There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:

- a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
  - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
  - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
  - d. to obtain and remove samples of any discharge or emissions of pollutants, and
  - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.
- the issuance of this permit:

shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,

does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,

does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,

does not take into consideration or attest to the structural stability of any units or parts of the project, and

- e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
6. a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.  
b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.
7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:
    - a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or
    - b. upon finding that any standard or special conditions have been violated, or
    - c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.



For assistance in preparing a permit application contact the Permit Section.

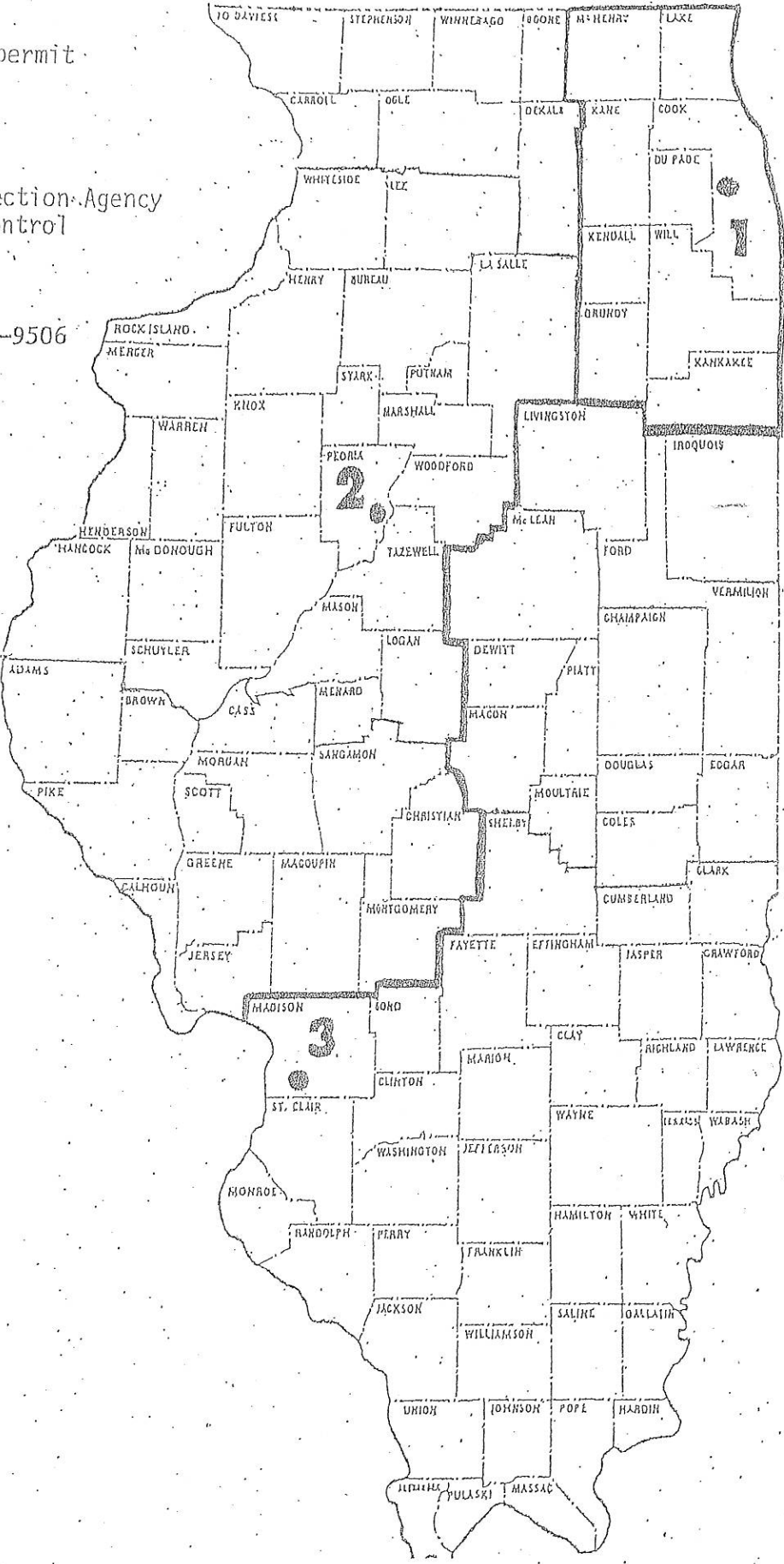
Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Permit Section  
1021 N. Grand Ave E.  
P.O. Box 19506  
Springfield, Illinois 62794-9506

For a regional office of the field Operations Section. The regional offices and their areas of responsibility are shown on the map. The addresses and telephone numbers of the regional offices are as follows:

Illinois EPA  
Region 1  
Bureau of Air, FOS  
9511 West Harrison  
Des. Plaines, Illinois 60016  
847/294-4000

Illinois EPA  
Region 2  
5415 North University  
Peoria, Illinois 61614  
309/693-5463

Illinois EPA  
Region 3  
1009 Mall Street  
Collinsville, Illinois 62234  
618/346-5120





**BARNES, HENRY,  
MEISENHEIMER & GENDE, INC.**

Engineers Serving Municipalities and Utilities

RECEIVED

MAR 25 2011

March 23, 2011

Mr. Dennis R. Herzing  
Village Administrator  
Village of Freeburg  
14 Southgate Center  
Freeburg, IL 62243

Re: Arc Flash Proposal for Electric System

Dear Mr. Herzing:

We are pleased to submit for the Village of Freeburg's consideration our proposal for professional engineering services relative to the Arc Flash Hazard Study for the Village's North Power Plant, South Power Plant and West Wastewater Treatment facility.

The following are the regulations that apply to Arc Flash:

## Arc Flash Hazard Analysis

The regulations that require an Arc Flash Hazard Analysis:

1. **2002 National Electric Code** (NEC 110.16) states a warning label must be placed on electrical equipment that may remain energized during maintenance or repair.
2. **National Fire Protection Association Guidelines** (NFPA 70E) requires facility owners to perform an arc flash analysis prior to allowing a worker to perform task on energized equipment.
3. **National Electrical Safety Code** C2-2007 (410.3) Effective as of January 1, 2009, the employer shall ensure that an assessment is performed to determine potential exposure to an electric arc for employees who work on or near energized parts or equipment.

The rules require that an arc flash analysis be performed for systems 50 Volts and above.

BHMG Engineers will perform an Arc Flash Hazards Analysis Study on the cities Electric utility distribution system and will calculate incident energy available until a category 0 or the lowest branch level is reached.

This study will be performed in accordance with the accepted industry practices consistent with NFPA 70E 2004 and IEEE 1584 Guide for performing Arc Flash Hazards.

This study is not intended to check the capability of the system design to accommodate the electrical load of the distribution circuits. As such, the continuous electrical capacities of the electrical conductors and busses, transformer sizes, and overcurrent protective devices have not been examined.

Any increase in the available fault current and any changes in relay settings, fuse sizes or coordination will require an updating of the results provided in this report. Also, any changes to the distribution systems under study may require a revision of this study.

The Arc Flash analysis and Personal Protective Equipment (PPE) needed will be calculated using ETAP, a commercially available fault/arc flash analysis program. This program uses the NFPA 70E-2004 and the IEEE 1584-2002 and IEEE 1584a-2004 arc flash calculations. The Arc Flash Hazards study provides a system one-line diagram and the calculated maximum fault currents, incident energy and category rating found at each location. There will also be a detailed listing of the calculated fault currents and PPE rating at each location.

The Incident energy released during an arc flash event is dependent upon available fault current and clearing times of upstream over-current protective devices. Pertinent Electrical Engineering Studies required for an Arc-Flash Study

**A.** Short-Circuit Current Study -Computes available fault current at equipment bus locations.

**B.** Over-current Protective Device Coordination Study - Determines appropriate settings/ratings required in order to obtain selective coordination between the power system upstream and downstream over-current protective devices. The arc flash study will use the as found protective device settings.

**C.** Arc-Flash Hazard Study - Uses studies a) and b) above to compute incident energy levels, proper rating of PPE, and NFPA 70E approach limit distances at specified equipment bus locations.

The arc flash hazards analysis study will be evaluated with the City of Mascoutah's electric utility system connected to Ameren and will determine the highest available incident energy (cal/cm<sup>2</sup>) for personal protective equipment needed. The Arc Flash Study will be calculated for the system with generation on and without generation.

BHMG will provide the following Arc Flash services:

1. One Line Electrical Diagram of the primary electrical system

2. Determine available Short Circuit Current study
3. Protective Device Coordination Study
4. Arc Flash Analysis
5. Document Incident Energy, Flash Hazard Boundaries, Risk Hazard Category
6. Labels for equipment
7. Report document with all results and study results

The cost for Arc Flash Hazard studies for electric utilities of your size usually run about \$30,000.00 to \$45,000.00. The West Wastewater Treatment facility study should cost about \$8,000.00 to \$10,000.00. The study usually takes about 8 to 10 weeks to complete.

**BHMG proposes to complete the Arc Flash Hazard Study on hourly basis with a not to exceed price of \$50,000.00.**

Enclosed is a contract for the Arc Flash Hazard Study.

We look forward to the opportunity to provide this service to the Village of Freeburg. If you have any questions, please do not hesitate to contact me at our Arnold office.

Sincerely,

**BHMG Engineers, Inc.**



Marty E. Thomas, P.E.  
President

**MEMORANDUM OF AGREEMENT**

**PROJECT DATA**

Date March 23, 2011

Project Name Village of Freeburg, Illinois Arc Flash Hazards Study

Owner's Project Number \_\_\_\_\_

BHMG Project Number 2011-

Description of Service Perform an Arc Flash Hazard Study for the city's Arc Flash Hazard Study for the Village's North Power Plant, South Power Plant and West Wastewater Treatment facility. The proposal is hourly with a not to exceed amount of \$50,000. The Arc Flash Hazard study will determine the available system fault current, examine system relay settings coordination calculate the incident energy, and will determine the Hazard/Risk Category and the PPE required for each location.

**AGREEMENT DATA**

Name Village of Freeburg  
Address 14 Southgate Center  
City Freeburg, Illinois 62243

Phone (618) 539-5545

Status:  Estimate  
 Quotation  
 Revision to Original

Fee Basis:  Cost Multiplier  
 Lump Sum  
 Other

Dates: Start TBD in 2011 after return of signed contract Complete TBD in 2011  
If the above status is indicated as an estimate, our fee will be based upon the time expended and unusual problems or difficulties may necessitate a higher fee. The terms and conditions under which we are providing these services shall apply. Such terms and conditions are set out on the reverse side of this page and incorporated herein by reference.

**BILLING DATA**

Monthly 30 days net  
 Other (explain)

The above is intended as a summary of our agreement for the performance of the work described. Please examine it carefully and, if accurate, indicate your approval and acceptance in the space provided below.

**BARNES, HENRY, MEISENHEIMER AND GENDE, INC.**

By   
Marty E. Thomas, President

**ACCEPTED**

The undersigned hereby states that they represent the owner(s) of the above described project and that the terms and conditions stated above are understood by them and herewith agreed to and accepted. We are hereby authorized and directed to proceed with the work outlined above.

Date \_\_\_\_\_

Signature \_\_\_\_\_

(Print Name & Title)

Date \_\_\_\_\_

Attest \_\_\_\_\_

(Print Name & Title)

**TERMS AND CONDITIONS**  
**Barnes, Henry, Meisenheimer and Gende, Inc.**

To assure an understanding of matters related to our mutual responsibilities, these terms and conditions for services are made a part of this agreement for our services:

**AMENDMENTS**

This agreement may be amended in writing providing both the Owner and Company agree to such modifications.

**COMPENSATION FOR SERVICES**

The basis for compensation will be as identified in the agreement.

When "Lump Sum" payment is utilized, it shall include all labor and expenses (for the scope of work as defined in the agreement) incurred by the Company and shall not exceed the fixed payment amount without prior authorization of the Owner.

When a "Payroll Costs" payment is utilized it shall be computed by a multiplier factor times payroll cost plus reimbursable expenses.

The "Payroll Costs" means the salaries and wages paid to all personnel engaged directly on the work plus the cost of customary and statutory benefits including social security contributions, unemployment, health, sick leave, vacation, workmans compensation, incentive and holiday pay applicable thereto.

"Reimbursable Expenses" means the actual expenses incurred directly or indirectly in connection with the work including but not limited to the following: Transportation and subsistence, toll telephone calls, telegrams, reproduction or printing, computer time and outside consultants.

The "Multiplier" is a factor for general direct overhead, indirect costs, profit and other costs. The Multiplier factor rate shall be identified in the agreement.

**TIME OF PAYMENT**

The Company may submit monthly statements for services and expenses based upon the proportion of the actual work completed at the time of billing. Unless provided for otherwise, payments for engineering services will be due and payable thirty (30) calendar days from the issuance of the Company's statement.

**LATE PAYMENT**

If the Owner fails to make any payment due the Company for services and expenses within the time period specified, a service charge of 1-1/2% per month will be added to the Owners account. This is an annual rate of 18%.

**LIMITATION OF LIABILITY**

The Owner agrees to limit the Company's liability to the Owner and to all construction contractors and subcontractors where applicable, on this work, for damages to them, due to the Company's negligent acts, errors or omissions, such that the total aggregate liability of the Company to all those named shall not exceed \$50,000 or the Company's total fee for services rendered on this work, whichever is greater.

**TERMINATION**

This agreement may be terminated by either party upon written notice. Any termination shall only be for good cause such as for legal, unavailability of adequate financing or major changes in the work. In the event of any termination the Company will be paid for all services and expenses rendered to the date of termination on a basis of payroll cost times a multiplier of 2.5 (if not previously provided for) plus reimbursable expenses.

**REUSE OF DOCUMENTS**

All documents including drawings and specifications furnished by Company pursuant to this Agreement are instruments of his services in respect of the work. They are not intended or represented to be suitable for reuse by Owner or others on extensions of this work, or on any other work. Any reuse without specific written verification or adaptation by Company will be at Owner's sole risk, and without liability of Company, and Owner shall indemnify and hold harmless Company from all claims, damages, losses and expenses including attorneys fees arising out of or resulting therefrom. Any such verification or adaptation will entitle Company to further compensation at rates to be agreed upon by Owner and Company.

**ESTIMATES OF COST**

Since the Company has no control over the cost of labor, materials or equipment or over a Contractor(s) method of determining prices, or over competitive bidding or market conditions, his opinions of probable Project Cost or Construction Costs that may be provided for herein are to be made on the basis of his experience and qualifications and represent his best judgment as a design professional familiar with the construction industry, but Company cannot and does not guarantee that proposals, bids or the construction cost will not vary from opinions of probable cost prepared by him. If the Owner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.

April 6, 2011

## .....SPECIAL BULLETIN.....

### OSHA PLANNING TO EXCLUDE DIGGER DERRICKS FROM CRANE RULE

*This is huge.*

**OSHA wants to exclude digger derricks doing Subpart V work from the Cranes and Derricks rule.** We may even see an amended Final Rule with the digger derrick Subpart V exclusion late this summer. Much sooner than that, while OSHA fiddles with the details of an amended Final Rule, we are likely to see a hold on enforcement of the existing rule insofar as it is triggered by digger derricks doing Subpart V work. **As a result, the rule, including its onerous training and 2014 third-party qualification and certification requirements, likely never will be applied to electric utility digger derrick operations.**

The digger derrick Subpart V exclusion is the gist of an Agreement in Principle accepted by the Edison Electric Institute last week as part of a proposed settlement of its petition for review filed last October with the US Court of Appeals for the DC Circuit. NRECA supported EEI's petition. Any changes in the rule will affect equally all those subject to it. Attached are [NRECA's letter](#) supporting EEI's petition, along with [EEI's notice of OSHA's proposal](#). Note that OSHA also plans to issue interpretations clarifying the voltage information and de-energizing issues in the rule.

OSHA says it will ask its parent agency, the Labor Department, for permission to implement the digger derrick Subpart V exclusion by a direct final rule. If, as expected, Labor agrees to OSHA's request, an amended Final Rule would appear in the *Federal Register* and would take effect automatically after a specified number of days – 90 is likely – if no one objects. If there are objections, then a regular notice-and-comment rulemaking would begin. Although we do not know specific timing, indications are that OSHA intends to move swiftly with the *Federal Register* notice, and even more swiftly with a hold on enforcement while the *Federal Register* notice is worked out.

*Now for those devilish details.*

If amended as contemplated, the Cranes and Derricks rule would not apply to digger derricks used by electric utilities and their contractors in Subpart V – that is, electric construction – work.

Other equipment defined as “cranes” – lattice cranes, for example -- used by electric utilities in Subpart V work would still be covered. Digger derricks used by electric utilities and others in non-Subpart V construction -- auguring a hole and setting a pole in constructing a billboard, for example -- would still be covered.

All non-construction work would remain outside the coverage of this *construction* rule. And the duties of utilities as owners of power lines – the duty to provide voltage information, for example – would not change.

*Wait a minute. Don't utilities already have an exclusion for digger derricks doing Subpart V work?*

No. We have something – two somethings, really – but they are not an exclusion for digger derricks doing Subpart V work. First, there is a complete exclusion for digger derricks doing Subpart V work involving holes and poles. And there is the option for the remaining non-excluded digger derricks – digger derricks used to set a padmount transformer, for example -- to use the more advantageous clearances of 1910.269(p). That's it. All the rest of the rule applies to non-hole/pole Subpart V work. Currently there is no blanket exclusion for digger derricks doing Subpart V work. That's what the proposed exclusion is all about.

*So, is this a big deal? Yes, this is a very big deal.*

The biggest part of the deal is that the exclusion means that utilities can forget about the onerous third-party qualification and certification requirements that are triggered by digger derricks doing non-hole/pole Subpart V work. And since most utilities do some digger derrick non-hole/pole Subpart V work at some point – setting a padmount transformer, for example -- most utilities would have to meet those qualification/certification requirements under the current rule. And training to meet those third-party requirements is also a requirement. **With the contemplated exclusion in place, utilities can concentrate, as they always have done, on training their digger derrick operators to meet the requirements of the job, rather than training to meet the often less applicable requirements imposed by OSHA. And no third-party need certify or qualify that self-imposed training.**

And there is more. With the contemplated exclusion, all that signal person documentation, overly complicated inspection procedure, qualified rigger hoopla, and qualified person/competent person foolishness will not apply to the extent those things are triggered by digger derricks doing non-hole/pole Subpart V work. Of course, signaling, inspections, and rigging remain of critical importance, but an exclusion will allow utilities to address those items as part of their General Duty to provide a safe work place.

All this sounds very good. The rule should have been written this way to begin with. OSHA is to be commended for recognizing this and taking remedial action, even if agency illumination came only after the kick in the pants of litigation. Of course, the whole show – the main feature as well as the popcorn -- depends on exactly how the amended Final Rule is worded. So stay tuned.



For more information, contact Association Counsel Jonathan Glazier at (703) 907-5798 or email at [jonathan.glazier@nreca.coop](mailto:jonathan.glazier@nreca.coop)

PUBLISHED BY THE NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION.  
EDITOR: [JONATHAN.GLAZIER@NRECA.COOP](mailto:JONATHAN.GLAZIER@NRECA.COOP). (703) 907-5798

This is a promotion from  
the National Rural Electric Cooperative Association.  
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**National Rural Electric  
Cooperative Association**  
A Touchstone Energy® Cooperative 

# URGE TESTS 2011

April		Tuesday							
		Peru - 12 Plank Rd new units 11-15 => 10 -noon							
May		Monday	Tuesday	Wednesday	Thursday	Friday			
		2	3	4	5	6			
		9	10	11	12	13			
		16	17	18	19	20			
	Flora Site A - 1, 2 =>10-noon 3 => noon-2 pm Flora Site B - 4, 5 => 3-5 pm	23	IMEA Flora- 6, 7, 8 => 10-noon 9, 10 =>noon-2pm	24	Carmi - 25 5, 6, 10 => 9 - 11 am 7,8 => noon- 2pm	26	Carmi - 26 9,10, 11 => 9 - 11 am 12, 13 => noon- 2pm	Fairfield - 27 5 => 9 - 11 am 6, 7 => noon- 2pm	
June		Monday	Tuesday	Wednesday	Thursday	Friday			
			Rantoul old plant - 1-31 8 => 9-11am 5, 7 => 11-1pm Rantoul East - 9, 10, 11 =>2-4pm	1	Rantoul Chandler - 12,13,14 => 9-11am Rantoul Prospect -15, 16 => noon-2pm	2	Sullivan - 3, 9, 10 =>9-11am 1, 2, 12 => noon-2pm	3	Sullivan - 4, 5,11 =>9-11am 6 => noon-2pm
		6	Breese - 2, 4, 7 =>10-noon 3, 5, 6 => 1-3pm	7	Carlyle - 1, 7 => 10-noon 8, 9 => noon-2pm	8	Highland Cats - 1, 2, 3 => 9-11am X1, X2 => 11-1pm Highland - 5, 6 => 2-4pm	9	Highland - 7, 8 => 10-noon
	Princeton - 1, 6 => 10-noon 2, 8 => noon-2pm	13	Princeton - 3, 5 => 10-noon 4, 7 => noon-2pm	14	Peru Rail - 16,17 => 10-noon	15	Bushnell - 1, 2, 7 => 10-noon 3, 4 => noon-2pm 5, 6 => 2-4pm	16	
	Mascoutah - 1, 2, 5 => 10-noon 3, 4 => noon-2pm	20	Freeburg - 6, 8, 9 => 9-11am Freeburg North - 10 - 12 => noon-2pm	21	Red Bud - 1, 2 => 10-noon 3, 4 => noon-2pm 7, 8 => 2-4pm	22	Waterloo - 7, 8 =>9-11am 1, 6 => 11-1pm 2-5, => 1-3pm	23	Waterloo Cats- X3-X5 => 10-noon
		27		28		29		30	1
July		Monday	Tuesday	Wednesday	Thursday	Friday			
			Casey - 1, 2, 3 => 10-noon	5	Altamont - 1, 2 => 10-noon 3, 4 => noon-2pm	6	Marshall - 5, 6-8 => 10-noon 9 - 13 => noon-2pm Unit 5 is in old plant	7	Marshall - may not need this date
		11	Farmer City - 1 => 10-noon 2, 3 => noon-2pm 5 => 2-4pm	12	Waterloo - <b>Only if 90+ F:</b> 9 CT=> 1-3pm	13	Peru Water St - 6 => noon-2pm <b>Only if 90+F:</b> 5 jet => 2-4pm	14	
		18		19		20		21	22
		25		26		27		28	29

**PJM located units will be tested during the last week of July or first 10 Days of August**