SECTION 1: Responder Information

1. Please provide your contact information

Agency	
Name	
Job Title	
Telephone	
E-mail	

SECTION 2: General Traffic Signal Statistics

2. How many signals are under your maintenance for signalized intersections?

No. of Signals

3. What technologies are used for the traffic signal power backup system in your organization?

- [ ] Battery-Based
- [ ] Generator-Based

Other (please specify)

4. How many signals have backup power?

Battery-Based Only

Generator-Based Only

Both Battery-Based and Generator-Based

Other Technology

5. What is the percentage of traffic signals that can be currently backed up with auxiliary power?

Percentage

SECTION 3: Traffic Signal Battery Backup System Specifications

6. If applicable, please provide specifications for the battery-based power backup system

Duration of Backup Power-Full Color Operations (hr)

Duration of Backup Power-Flash Mode Operations (hr)

Manufacturer and Model

7. Does the battery-based power backup system fit inside your traffic signal cabinet?

- ◯ Yes
- ◯ No
- ◯ N/A

If no, what kind of accommodations do you have to do?

8. If applicable, how frequently do you routinely replace batteries so that they can maintain the designed performance?

SECTION 4: Generator Based Traffic Signal Power Backup System Specifications

9. If applicable, please provide specifications for the generator-based power backup system

Duration of Backup Power before Refilling-Full Color Operations (hr)

Duration of Backup Power before Refilling-Flash Mode Operations (hr)

Manufacturer and Model

10. Does your agency outfit signal controllers with generator plugs for portable generators?

◯ Always ◯ Sometimes ◯ Never ◯ N/A

11. Does your agency have generators dedicated primarily to power traffic signals?

◯ Yes

◯ No

12. If the answer to Question #11 is yes, how many generators dedicated to traffic signals does your agency maintain?

13. Can your agency access generators from other departments to provide power backups for traffic signals? From what other agencies? (check all that apply)

☐ Yes - Department of Transportation ☐ Yes - Department of Public Works ☐ Yes - Law Enforcement

☐ Other (please specify)

14. If the answer to Question #13 is yes, how many generators could your agency access?

15. Based on experience, how many signals could be run simultaneously by generators or battery backups during a widespread, long-term (24+ hours) power outage given your equipment and manpower?

SECTION 5: Traffic Signal Operations under Backup Power

16. Does the power backup system change the mode under which traffic signals operate?

- ◯ Yes
- ◯ No

If yes, what mode do traffic signals operate under backup power?

17. Are traffic signals coordinated under backup power?

- ◯ Yes
- ◯ No

Other (please specify)

18. If applicable, does Emergency Vehicle Preemption (EVP) function under backup power?

- ◯ Yes
- ◯ No
- ◯ N/A

Other (please specify)

19. If applicable, does Transit Signal Priority (TSP) function under backup power?

- ◯ Yes
- ◯ No
- ◯ N/A

Other (please specify)

SECTION 6: Procedures of Power Backup System Operations

20. Is there a procedure to prioritize the placement of the power backup system?

- ◯ Yes
- ◯ No

If yes, how is it established and is it associated with the identified evacuation routes?

21. If applicable, what are the policies/procedures/priorities for your agency to work with utility companies to restore the power to traffic signals?

22. If applicable, how does your agency coordinate with utility companies?

23. What other methods does your agency employ to control traffic flow at signalized intersections when widespread power outages inhibit the function of the traffic signal system? (check all that apply)

- ☐ Traffic barriers to divert vehicles or prohibit movements
- ☐ Dispatching traffic control officers
- ☐ Temporary stop signs
- ☐ Other (please specify)

SECTION 7: Additional Information

24. Is there any additional information you would like to share with us concerning the above questions or other topics?

If you have any questions, please feel free to contact the following MWCOG/TPB Staff:

Marco Trigueros
mtrigueros@mwcog.org
202-962-3329

More information regarding traffic signal activities in the National Capital Region can be found at the link below
http://www.mwcog.org/transportation/committee/committee/default.asp?COMMITTEE_ID=119