

Meaningful Statistics for DR

1. How frequently are they exercised
2. Registration Information provided by the subscriber
 - a) When was the first activation
 - b) Assumption made in coming up with first estimate
 - c) How did they do the next time, and have a history
 - d) Granularity of registration (*one number to hour-by-hour*)
3. How well does the solution match up with the needs
4. How many MWs are committed over how many hours per year
5. Kind of program being exercised
6. Characteristics of program being exercised and characteristics of the load (load characteristics different, respond to frequency, respond to instruction)
7. Base lining dependent on load & Dispatch characteristics
 - How many sizes are they
 - How to fit into the base line methods
 - Common Characteristics of Base-line Methods
8. Characteristics of Baseline
 - Comprehensible
 - Accurate
 - Flexible
 - Reproducible
9. Baseline types:
 - Firm Service Level Drop
 - Metering before and after instruction
 - Statistical Modeling
 - Comparable Day
 - On-site Generation Data (behind the meter)
10. How frequently activated
 - When were they activated
 - What they thought they would get
 - How much did they get
11. How big a deal (amount of DR versus total internal demand).
 - How much towards ancillary services
 - How much for net demand
12. How long DR has been instituted
13. How many MWs out there and how often it is used
14. How well performing....the way they are suppose to...
15. Did you get what you needed...what did you expect

Metrics

- (1) What were the times that particular resources are called upon
 - i. X activations in the month of April
 - ii. (How much did you get)/(how much you expected to get)
 - iii. (how much did you get)/(how much did you call for)
 - iv. When to start measuring
 - v. Is it an average?
 - vi. How fast they performed versus the speed you needed them to perform
 - vii. What service is being provided
- (2) NERC Standards provide a basis of metrics
- (3) Suitable Sized buckets

- (1) How many days a program activated
- (2) How many hours
- (3) How many MWs registered
- (4) What was I expecting to get?
- (5) How much did I get?
- (6) Population characteristics
 - i. Program definition
 1. Have common characteristics