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nyiso Emergency Demand Response Program Manual

revised: 05.24.2001

revised: 02 . 28. 2002

What's New for 2002?

Section Topic

- 3.8 Alternative Performance Measures for Small Customer Aggregations can be submitted for approval to the NYISO.
- 3.9 Curtailment Service Providers must participate in NYISO sponsored EDRP program evaluations.
- 5.2 On-site generators must supply evidence that they have applied for or received from the NYS Dept. of Environmental Conservation (DEC) one of the following permits (i) Title V, (ii) State Facility, or (iii) Registration.
- 5.3 Updated EDRP Notification Procedures to reflect the procedures put in place during the summer 2001.
- 6.1 Updated Metering Requirements
- 6.2 Alternative weather-sensitive Customer Base Line (CBL) options
- 6.7 Updated Settlement Payment timeline
- Att. A, B..... Updated registration forms to reflect the changes above.
- Att. D Added .csv event data reporting format description.

1.0 Definitions and Acronyms

Capability Period - Six (6) month periods which are established as follows: (1) from May 1 through October 31 of each year ("Summer Capability Period"); and (2) from November 1 of each year through April 30 of the following year ("Winter Capability Period").

Centrally Dispatched Emergency Power Generating Unit (CDEPGU) As defined by the Dept. of Environmental Conservation 6 NYCRR Part 200, a stationary source characterized as an on site power generating unit that may be operated following receipt by the unit's owner or operator of a start-up signal that was initiated by the NYISO during implementation of the NYISO's EDRP.

Curtailment Customer Aggregator (or Aggregator) – An organization qualified as a CSP that enters into contracts with Demand Side Resources to either interrupt load or start up Local Generation under the EDRP.

Curtailment Program End Use Customer (EUC) – A retail end-user that qualified as a CSP and can either interrupt load or start up Local Generation under the EDRP.

Curtailment Services Provider (CSP) – A qualified provider that can produce real-time, verified reductions in NYCA Load of at least 100 kW, pursuant to the Emergency Demand Response Program ("EDRP") and related ISO procedures. CSPs can be either an LSE, a Direct Customer, a Curtailment Customer Aggregator, or a Curtailment Program End Use Customer.

Customer Base Load (CBL) – Average hourly energy consumption as calculated in Section 6, used to determine the level of load curtailment provided.

Day-Ahead Zonal LBMP – The price (in \$/MWh) for combined energy, losses, and transmission congestion determined on an hourly basis in the day-ahead electricity market.

Demand Side Resources - Resources that result in the reduction of a Load in a responsive and measurable manner and within time limits established in the ISO Procedures.

EDRP – Emergency Demand Response Program, described in this manual.

EDRP Loads – Retail end-users that provide load reduction and have been registered through a CSP to participate in the Emergency Demand Response Program.

Emergency Condition - Any abnormal system condition as specified by the ISO that requires immediate automatic or manual action to prevent or limit loss of transmission facilities or Generators that could adversely affect the reliability of the electric system.

Emergency Generation - An electrical generator installed to handle emergency outages at a facility, for short periods of time.

In-Day Peak Hour Forecast – Forecasted morning and evening peak loads as determined by the NYISO Shift Supervisor or his assignee, used to evaluate total operating capacity.

Installed Capacity (ICAP) - A Generator or Load facility that complies with the requirements in the Reliability Rules and is capable of supplying and/or reducing the demand for energy in the New York Control Area for the purpose of ensuring that sufficient energy and capacity are available to meet reliability rules. The Installed Capacity requirements, established by the New York State Reliability Council, include a margin of reserve in accordance with the Reliability Rules.

Interval Metering – An approved metering device, which records electricity usage for each fifteenminute period during a billing period.

Load Bank - An electric resistance coil or similar device that creates an electric load which is used for testing generators under load.

Load Curtailment (or Reduction) - A reduction in energy usage at a retail end user's facility that is the result of the retail end user either reducing the energy consumed or operating an on-site generator.

Load Serving Entity (LSE) – Any entity, including a municipal electric system and an electric cooperative, authorized or required by law, regulatory authorization or requirement, agreement, or contractual obligation to supply Energy, Capacity and/or Ancillary Services to retail end users located within the NYCA, including NYISO Direct Customers.

Local Generator - A generator operated by or on behalf of loads offering load reductions pursuant to the Emergency Demand Response Program. Such generators are not synchronized to a utility's local distribution system or, if synchronized to the local distribution system, support a load that is equal to or in excess of the generator's capacity; *i.e.* when operating, the local generator supplies energy only to the end user whose load it is being operated to serve and does not supply energy to the distribution system. On-site generators that are base-loaded do not qualify for the EDRP.

Locational Based Marginal Price (LBMP) - The price of energy bought or sold in the LBMP Markets at a specific location or zone.

Meter Service Provider (MSP) - An entity that provides meter services, consisting of the installation, maintenance, testing and removal of meters and related equipment.

Meter Data Service Provider (MDSP) – An entity providing meter data services, consisting of meter reading, meter data translation and customer association, validation, editing and estimation.

New York Independent System Operator (NYISO) - Not for profit organization created to supply New York's electric power needs and to facilitate the power market equitably.

NYCA –The Control Area that is under the control of the NYISO which includes transmission facilities listed in the ISO/TO Agreement Appendices A-1 and A-2, as amended from time-to-time, and Generation located outside the NYS Power System that is subject to protocols which allow the ISO and other Control Area operator(s) to treat some or all of that Generation as though it were part of the NYS Power System.

NYISO Customer – An entity which has complied with the requirements contained in the ISO Services Tariff, including having signed a Service Agreement, and is qualified to utilize the Market Services and the Control Area Services provided by the NYISO under the ISO Services Tariff; provided, however, that a party taking services under the Tariff pursuant to an unsigned Service Agreement filed with the Commission by the NYISO shall be deemed a Customer.

NYISO Direct Customer – An entity, which takes or provides service directly from or to the NYISO, and is responsible for bidding, scheduling, and billing functions for their facilities.

NYISO Limited Customer – An entity that joins the NYISO to participate in the EDRP; registration requirements are the same as for a NYISO Customer except that a Limited Customer:

- Is not required to satisfy the financial assurance obligations imposed on Customers,
- Their status as a Limited Customer expires at the end of the EDRP program, and
- Voting privileges are waived with respect to the governance process.

All NYISO Customers meeting the eligibility criteria set forth in Section 3 qualify as Limited Customers, and may participate in the EDRP subject to the registration procedures defined in Section 4.

NYISO Services Tariff – The document that sets forth the provisions applicable to the services provided by the ISO related to its administration of competitive markets for the sale and purchase of Energy and Capacity and for the payments to Suppliers who provide Ancillary Services to the ISO in the ISO Administered Markets and provision of Control Area Services, including services related to ensuring the reliable operation of the NYS Power System.

NYS DEC - New York State Department of Environmental Conservation

Operating Reserve Shortage – Failure to maintain the Minimum Operating Reserve Requirement as defined in Section 4.1.1 of the NYISO System Operating Procedures.

Real-Time Zonal LBMP – The price (in \$/MWh) for combined energy, losses, and transmission congestion determined on a roughly five-minute basis in the real-time electricity market.

Remote Metering - Metering equipment, which allows for remote collection of metering data.

Special Case Resource - Loads capable of being interrupted upon demand, and distributed generators, rated 100 kW or higher, that are subject to special rules set forth in the NYISO Services Tariff, in order to facilitate their participation in the Installed Capacity market as Installed Capacity Suppliers.

Zone - One of eleven geographical areas located within the NYCA that is bounded by one or more of the fourteen New York State Interfaces. During the implementation of the LBMP Markets, all Loads located within the same Load Zone pay the same Day-Ahead LBMP and the same Real-Time LBMP for Energy purchased in those markets.

2.0 **Program Summary**

The *Emergency Demand Response Program* (EDRP) provides a mechanism for load reduction during emergency conditions, more specifically defined in this document, thereby facilitating the reliability of the New York State bulk power system.

Retail end users who agree to participate in the EDRP can be accommodated through one of four types of Curtailment Service Providers (CSPs):

- Load Serving Entities (LSEs), either that currently serving the load or another LSE,
- Through NYISO-approved Curtailment Customer Aggregators
- As a Direct Customer of the NYISO
- As a NYISO-approved Curtailment Program End Use Customer

Curtailment Customer Aggregators and Curtailment Program End Use Customers must register with the NYISO as Limited Customers as defined in Section 4.0.

CSPs should be able to provide load reduction of at least 100 kW per Zone and be able to respond within two hours of emergency notification.

Participation in the EDRP is voluntary and no penalties attach if a CSP fails to respond to a NYISO notice to reduce load.

Retail end users participating in the EDRP may also participate in the NYISO's Special Case Resources Program if otherwise qualified.

The NYISO will allow up to 25 MW of program participation by aggregations of smaller customers, the curtailed usage of which will be determined by using an alternative to the basic provisions regarding the metering and measurement of performance. DG and self-generation resources are not eligible. Direct serve customers are also prohibited from operating under alternative performance measures. Section 3.8 describes the details of this program option.

CSPs will be given notice no less than two hours in advance of the time specified to reduce load, pursuant to NYISO emergency operations procedures. If the ISO activates the Emergency Demand Response Program for more than four hours, each CSP shall be paid the higher of \$500/MWh, or the zonal Real-Time LBMP per MWh of demand reduced, starting with the hour specified by the ISO as the starting time of the activation, or, in the event that the ISO specified that the demand reduction begin as soon as possible, starting with the hour that the CSP began its response.

If the ISO activates the EDRP for four hours or less, each CSP shall be paid as if the EDRP had been activated for four hours. Each CSP that reduces demand shall be paid the higher of \$500/MWh or the zonal Real-Time LBMP per MWh of demand reduced, for the duration of the ISO activation of the EDRP or for two hours whichever is greater, starting with the hour specified by the ISO as the starting time of the activation, or, in the event that the ISO specified that the demand reduction begin as soon as possible, starting with the hour that the CSP began its response. Each CSP shall be paid the zonal Real-Time LBMP per MWh of demand reduced for the remainder of the four-hour minimum payment period, provided that a verified demand reduction was effectuated by the time specified in the ISO's notice.

A detailed explanation of payments can be found in Section 6.

The program will be effective May 1, 2001 and will continue through October 31, 2002. At the end of each Capability Period, the program will be evaluated and changes recommended as necessary.

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3.1 Effective Period of the Program

The program begins on May 1, 2001, and will continue through October 31, 2002. At the end of each Capability Period (May-October and November-April), program performance will be evaluated to see if any rules and procedures need to be modified.

Entities wishing to participate may apply for entry into the program at any time. If you are also planning to qualify as a Special Case Resource you should review the rules and regulations that apply to Installed Capacity (ICAP) suppliers found in [1], or contact NYISO Market Relations.

3.2 Who Can Participate?

The EDRP allows wholesale electricity market participants to subscribe retail end users able to provide Load Reduction (Demand Side Resources) when called upon during emergency conditions. Wholesale market participants are grouped into four broad classes of *Curtailment Service Providers* (CSPs):

- Load-Serving Entities (LSEs) as defined in [2] that currently serve retail end users capable of load reduction, or an LSE that subscribes another LSE's load solely for the purpose of participating in the NYISO EDRP. LSEs may claim load reductions from their retail end users or the retail end users of another LSE. Load curtailment programs currently in place or under implementation may directly qualify for the EDRP (see 3.4 Restrictions below).
- *Direct Customers* of the NYISO as defined in [2] may claim their own load reductions.
- NYISO-approved *Curtailment Customer Aggregators* (Aggregators) of retail end users capable of load reduction. Aggregators may claim load reductions from Demand Side Resources with which they have a contractual arrangement. An Aggregator is required to join the NYISO as a NYISO Limited Customer.
- NYISO-approved Curtailment Program End Use Customers (EUC), end-use customers whose load is normally served by an LSE but who wish to participate directly with the NYISO solely for purposes of the EDRP. EUCs must be capable of reducing at least 100 kW of load. An EUC is required to join the NYISO as a NYISO Limited Customer.

Participation in the EDRP is voluntary; no penalties are imposed upon CSPs or Demand Side Resources for not responding to load reduction requests.

3.3 Minimum Qualifications for CSPs

To serve as a CSP, you must:

- Be a NYISO Customer (in the case of LSEs and Direct Customers) or a NYISO Limited Customer (in the case of Aggregators and EUCs) of the NYISO and be able to pledge Load Reduction in the NYCA.
- 2) Be able to completely disconnect from the local distribution system and supply required load via local generators¹ or to reduce a measurable and verifiable portion of the load.
- 3) Be capable of reducing at least 100 kW of load per Zone.
- 4) Be capable of responding within two hours of notice from the NYISO.
- ¹ These generators either can be non-synchronized to the grid or synchronized to the grid with no net export to the grid while serving load.

- 5) Follow the registration procedures defined in Section 4 of this manual.
- 6) CSPs are required to provide hourly interval metering data to validate performance; specific metering requirements are given in Section 6 of this manual.

3.4 Restrictions

To participate in the program, an individual Demand Side Resource cannot subscribe the same metered load with more than one CSP.

Retail end users under a contract that prevents them from curtailing energy are prohibited from participating in the program. The NYISO will consult with the appropriate LSE and Electric Distribution Company to verify that the load to be reduced is not under any other specific contractual obligation that would prevent participation in the EDRP.

3.5 Requirements for Curtailment Customers With Local Generation

Owners of on-site and emergency generators including, but not limited to hospitals, data centers, office buildings, warehouses and industrial locations are eligible to participate in the EDRP. Local Generation will serve all or part of what otherwise would be NYISO load (i.e., the retail end user's specific load delivered from their LSE), thereby reducing the total NYISO load during declared emergencies. The requirements for participation are as follows:

- 1) The generator may operate non-synchronous or synchronous with the grid as long as there is no net electric export while serving the load.
- 2) Be capable of responding within 2 hours of a request to reduce load.
- 3) Must have an integrated hourly or permanent recording meter as described in Section 6.1, Metering Requirements.
- 4) Be capable of receiving notification from a Curtailment Service Provider (CSP).
- 5) Be compliant with the appropriate NYS DEC permitting / registration requirements. Provide evidence that the on-site generator has applied for or obtained from the DEC one of the following permits (i) Title V, (ii) State Facility, or (iii) Registration. Section 5.2 provides more details regarding on-site generator participation.
- 6) Demand Side Resources that will use on-site generators to reduce load and that have Load Banks for testing purposes must ensure that the Load Bank is not operating during the hours required by the EDRP.

Nothing in the EDRP expands or reduces the rights or obligations a Local Generator may have to buy or sell energy into the wholesale market.

3.6 Compatibility with ICAP Special Case Resources

The EDRP pays for energy during times of emergency, but does not pay for capacity. The NYISO has a separate program called Special Case Resources (SCR) within the Installed Capacity (ICAP) market that pays for capacity. SCR is available to generators and load reduction providers that meet testing, metering and other requirements. The capacity payments under SCR and the EDRP energy payments are additive. While there are no penalties for non-performance as an EDRP provider, the SCR program will reduce future capacity payments if the NYISO calls for operation and the SCR does not perform. In the event that the NYISO activates SCR to reduce their consumption of energy in accordance with the criteria set forth in Section 5, the NYISO will activate the EDRP. See the ICAP Manual located at www.nyiso.com/markets/icapinfo.html for more details on SCR.

3.7 Compatibility with LSE-Sponsored Curtailment Programs

There are curtailment programs in New York State both currently in place and under development that are designed to help the local utility with distribution load management. Each program is aimed at enhancing the reliability of the local electric system during time of high usage or outages. The EDRP is designed to be compatible with these programs

Demand Side Resources may participate in both the EDRP and the Day-Ahead Demand Reduction Program (DADRP) offered by the NYISO. If an EDRP event is called and a Demand Side Resource is participating in both programs, payments will be made as follows:

- 1) If the Demand Side Resource has not had a demand reduction bid accepted in the Day-Ahead Market for the day of the EDRP event, demand reduction provided as a result of the EDRP event call will be paid in accordance with the rules set forth in this manual.
- 2) If the Demand Side Resource is responding to the schedule determined from the bid accepted in the Day-Ahead Market, payments will be made in accordance with the DADRP rules up to the demand reduction scheduled in the Day-Ahead Market. Additional verified demand reduction above that scheduled in the Day-Ahead Market will be paid in accordance with the rules set forth in this manual.

3.8 Limited Small Customer Aggregation

1. Aggregations must be at least 0.5 MW for EDRP. The NYISO will establish an up-front means of certifying that the aggregation has an expectation of meeting this requirement. This will be established as part of the approval of the verification methodology; the sampling plan or other measurement methodology will assign an initial (a priori deemed) estimate of the response per site in order to drive the sample size. The aggregation can be comprised of two or more different sampling methods, provided that such a super aggregation was allowed by the NYISO. The MW limit can also be met by combining participants enrolled by different brokers (CSP or LSE) provided that the brokers agree to submit all participants under a single program entity.

2. Aggregations receive an initial settlement of 75% of the deemed response. For any event that results in payments to participants of an aggregation, the NYISO will pay out 75% of the amount determined by applying the curtailment payment rates to the a priori deemed performance level as defined in (1) above in the normal course of settlements for PRL program participants. At the end of the contract term under which the aggregation was approved, and after all required analyses have been conducted, the NYISO will perform a final settlement assessment and pay out or demand payment of the amount determined by that settlement assessment process.

3. Aggregators must accept full responsibility for payments to and penalties levied against the members of the aggregation. The NYISO will require that each member of the aggregation execute an agreement to participate indicating that it accepts the provisions of the ISO pro gram and authorizes the LSE/CSP to act as its broker for the purposes of participation

4. Proposals for measuring aggregation performance can involve one of several methods:

a. The deployment of approved whole-premise kW metering devices on a sample of participants
b. The deployment of approved end-use device or process kW metering devices on a sample of participants that elect to limit PRL program participation to specified end-use devices or processes.
c. Provision for supplying verifiable behavioral actions, equipment operating logs, or other data that is deemed to be sufficiently indicate the load level the customer otherwise would have consumed, but for the PRL program event participation

d. Other measurement systems that indicate the load level the customer otherwise would have consumed, but for the PRL program event participation

5. Promulgate provisions that govern applications. A process and procedures will be drawn to govern how applications are made, processed and ruled upon, and to set limits to aggregation projects by zone, provider, program, or any other category, including allocation of bidding slots. The number of aggregations allowed needs to accommodate all of the utilities plus a reasonable number of CSPs and LSEs. Each proposal for small customer aggregation will be reviewed by the NYISO staff and the Price Responsive Load Working Group, and must be approved by a majority of the Chairs and Vice-Chairs of the Management Committee and Business Issues Committee and the Chairman of the Price Responsive Load Working Group.

6. Aggregations may be declared as ICAP or UCAP. For the purposes of ICAP and UCAP, the use of statistical verification as approved for this program will be an acceptable alternative to interval metering.

7. The Aggregation broker is responsible for all costs associated with developing and administering the alternative performance methodology. Applications for approval of alternative methodologies must include a explicit description of the methodology and how it would be tracked and administered, accompanied by the specific administration processes required and their. The NYISO in approving an application will specify the costs associated with administration that the applicant must bear. The aggregation applicant must agree to be responsible for all such costs, including costs incurred by the ISO for developing and administrating the alternative methodology. The ISO may, at its discretion, require that some or all of such cost be reimbursed by the applicant upon approval of the methodology, or deduct all costs from payments for curtailments by participants, or a combination of the two methods of cost recovery.

8. One method per end-use premise. End-use electricity customers may subscribe load at a given premise to PRL programs only under a singe performance methodology, either the standard method or an approved alternative methodology.

9. Failure to comply with aggregation procedures. The NYISO may, at any time, terminate its agreement with an aggregation broker if it determines that the broker is not fulfilling it obligation under the aggregation agreement. Customers belonging to such aggregation may henceforth participate by signing up under any approved means of participation.

3.9 EDRP Program Evaluation

Curtailment Service Providers must participate in any NYISO sponsored EDRP program evaluations.

4.0 CSP Registration Procedures

To qualify as a Curtailment Service Provider (CSP) you must be an LSE, Direct Customer, Curtailment Customer Aggregator or Curtailment Program End Use Customer. The registration form is posted on the NYISO web site (<u>www.nyiso.com</u>) and included in Attachment A to this manual. The general requirements for each CSP class are as follows:

4.1 Load Serving Entities (LSE)

For LSE's that are enrolling a retail end user whose load is served by the LSE:

- 1. Complete Attachment A of this manual.
- 2. Register each Demand Side Resource with the NYISO after signing a contract using the EDRP Certification form provided in Attachment B of this manual. Any information on the identity of a Demand Side Resource that is provided to the NYISO will be treated as confidential, and will not be disclosed to third parties without the express permission of the end-use customer, unless aggregated or otherwise presented in such a way as to preserve confidentiality.
- 3. By submitting the EDRP Certification Form, the LSE confirms that the load to be reduced is not under any specific contractual obligation that would prevent participation in the EDRP.
- 4. The EDRP participant registration is deemed approved 14 calendar days after LSE submission of Attachment B for each retail end user unless the NYISO contacts the LSE via phone or e-mail to the contrary.

For LSE's that are enrolling a retail end user whose load is served by a different LSE:

- 1. Complete Attachment A of this manual.
- 2. Register each Demand Side Resource with the NYISO after signing a contract using the EDRP Certification form provided in Attachment B of this manual. Any information on the identity of a Demand Side Resource that is provided to the NYISO will be treated as confidential, and will not be disclosed to third parties without the express permission of the end-use customer, unless aggregated or otherwise presented in such a way as to preserve confidentiality.
- 3. Within 2 days after receipt of the EDRP Certification Form, the NYISO will forward the registration to the appropriate LSE and Electric Distribution Company to confirm that the load to be reduced is not under any specific contractual obligation that would prevent participation in the EDRP.
- 4. The EDRP participant registration is deemed approved in 14 calendar days after notification is provided to the LSE unless the NYISO contacts the LSE via phone or e-mail to the contrary.

4.2 Direct Customers

Direct Customers of the NYISO should fill out Attachment A and one copy of Attachment B.

4.3 Curtailment Customer Aggregators

5. Curtailment Customer Aggregators are companies that work with owners of generation and load reduction to make it easier to participate in the NYISO Emergency Demand Response program. To register as a Curtailment Customer Aggregator, you must become at least a NYISO Limited Customer. If you are applying for NYISO Limited Customer status as a Curtailment Customer Aggregator and will only be a seller to the NYISO:

1. Complete Attachment A of this manual.

- 2. Complete Sections A, B, F, G, H, J and K of the NYISO Registration Packet, available at the NYISO website
- 3. Sign the Market Services Tariff.
- 4. Register each Demand Side Resource with the NYISO after signing a contract using the EDRP Certification form provided in Attachment B of this manual. Any information on the identity of a Demand Side Resource that is provided to the NYISO will be treated as confidential, and will not be disclosed to third parties without the express permission of the end-use customer, unless aggregated or otherwise presented in such a way as to preserve confidentiality
- 5. Within 2 days after receipt of the EDRP Certification Form, the NYISO will forward the registration to the appropriate LSE and Electric Distribution Company to confirm that the load to be reduced is not under any specific contractual obligation that would prevent participation in the EDRP.
- The EDRP participant registration is deemed approved in 14 calendar days after notification is provided to the LSE unless the NYISO contacts the Curtailment Customer Aggregator via phone or e-mail to the contrary.

The application process can take up to 30 days.

4.4 Curtailment Program End Use Customer (EUC)

An EUC is any Local Generation owner or retail end user capable of interrupting load that can reduce at least 100kW in a zone and wants to participate in the EDRP directly with the NYISO. If you are applying for NYISO Limited Customer status as an EUC and will only be a seller to the NYISO:

- 1. Complete Attachment A of this manual.
- 2. Complete Sections A, B, F, G, H, J and K of the NYISO Registration Packet, available at the NYISO website
- 3. Sign the Market Services Tariff.
- 4. Register each Demand Side Resource with the NYISO after signing a contract using the EDRP Certification form provided in Attachment B of this manual.
- 5. Within 2 days after receipt of the EDRP Certification Form, the NYISO will forward the registration to the appropriate LSE and Electric Distribution Company to confirm that the load to be reduced is not under any specific contractual obligation that would prevent participation in the EDRP.
- 6. The EDRP participant registration is deemed approved in 14 calendar days after notification is provided to the LSE unless the NYISO contacts the EUC via phone or e-mail to the contrary.

The application process can take up to 30 days.

5.0 Operating Mechanism / Implementation

5.1 When Will the Program be called?

The EDRP is limited to when called by the NYISO as a part of the In-day Peak Hour Forecast response to an Operating Reserve Peak Forecast Shortage as defined in [3]. The EDRP will be called in conjunction with Special Case Resources.

The NYISO will invoke the EDRP as one of its emergency procedures in conjunction with the In-day Peak Hour Forecast response to an Operating Reserve Peak Forecast Shortage, as defined in [3], or in response to the Major Emergency state as defined in [4]. Day-ahead notice of a potential operating reserve shortage shall be provided to CSPs when possible. The program is intended to support the New York State power system during emergency periods and the NYISO reserves the right to use its discretion in calling upon EDRP resources to relieve system or zonal emergencies.

The NYISO will declare an Alert State, or Major Emergency for real-time shortage of Operating Reserve, and activate all available in-state generating resources to re-establish the Operating Reserve. If required levels of real-time Operating Reserves cannot be re-established, the NYISO will utilize the EDRP to re-establish real-time Operating Reserves.

5.2 Procedures for Contacting Participants

Each CSP will designate a contact person responsible for interfacing between the NYISO and the CSP. When the EDRP is invoked, the NYISO will notify each CSP. Each CSP will notify the Demand Side Resources in accordance with the communications procedures agreed upon between the CSP and the Demand Side Resource.

The message from the NYISO will include an order to reduce load at a specific time. The message will also contain an estimate of the load reduction duration. The NYISO will keep the CSPs updated concerning the status of the load reduction.

If the estimated load reduction period ordered by the NYISO is extended, the NYISO will contact CSPs to provide an updated restoration time.

5.3 NYISO Protocol for Dispatching of EDRP Generators Limited by the DEC 150MW Expanded "Emergency" Definition

Under amendments to DEC Regulations 6 NYCRR Parts 200, 201, 225 and 227 dated May 3, 2001, exempt generators may keep their existing emergency classification and operate during a blackout or when called by the NYISO's EDRP. Generators that operate when the NYISO calls are classified by DEC as "centrally dispatched emergency power generating units" or CDEPGU's. This exemption allows up to 200 hours per year of NYISO operation and is limited to 150 MW of actual dispatch at any given time statewide. This 150 MW limit is only for generators using the emergency generator exemption. Registration, State Facility and Title V Permit operation is not impacted by the 150 MW limit.

The proposed protocol recognizes that NYISO Operations deal with CSPs, not individual Demand Side Resources. Also, operating procedures developed prior to the DEC ruling did not selectively call upon resources based upon location. The approach-outlined below keep the operational requirements simple but at the same time allow every subscribing CSP an opportunity to participate.

- 1.The NYISO will call all CDEPGU generators statewide during each EDRP event until such time that 150MW has been activated collectively under the NYISO EDRP Manual Attachment B.
- 2.When more than 150MW of CDEPGU's has been signed up statewide, dispatch will occur in a "Round Robin" sequence. Dispatch will be by CSP, after NYISO has given consideration to the zonal load conditions and expected transmission constraints during the emergency. Position number in the round robin dispatch sequence will be based on the submission date of the first valid EDRP Attachment B form by the CSP, which registers as a CDEPGU. Once the CSP is called for an EDRP event they will move to the back of the line, in order, and wait their turn for the next EDRP event.
- 3.To illustrate the round robin approach, assume that 15 CSPs with CDEPGU generation are enrolled, each with 15 MW. The round robin sequence would apply when more than 150 MW are subscribed, and would work as follows:



only 150 MW called at one time

4.The NYISO will also identify any additional CDEPGU generators that the NYISO would have dispatched during the EDRP event in the absence of the 150 MW DEC limitation. These units will be treated as having a forced outage as a result of an environmental limitation.

5.Should the DEC revise its position on the 150 MW limitation, CDEPGUs will be allowed to modify their historic outage data to the extent that their forced outage statistics were affected by the cap.

5.2 NYISO Protocol for Dispatching of EDRP Generators Limited by the DEC 150MW Expanded "Emergency" Definition

This section describes the circumstances under which state agencies, state authorities, regulated utilities, and non-regulated CSPs may contract with customers who agree to reduce demand on the electricity grid by offloading all or a portion of their own power needs through the operation of emergency generators.

This protocol was agreed upon by the New York Public Service Commission (PSC), New York Department of Environmental Conservation (DEC), New York Energy Research and Development Agency (NYSERDA), New York Power Authority (NYPA), Long Island Power Authority (LIPA), and the NY Independent System Operator (NYISO).

It is understood that prior to Summer 2002, the terms and conditions contained in this protocol are intended to be incorporated into utility tariffs by the PSC and are to be made preconditions to participation in the Emergency Demand Response Program (EDRP) by the NYISO.

5.2.1 Program Limitations

Self-generation customers participating in the program will be activated only by the NYISO emergency demand response program, or the transmission owner (TO) in the event of a localized distribution emergency.

All generators that will respond to a "call" for self-generation under the program must be subject to one of the following: (i) a DEC Title V permit, (ii) a DEC state facility permit, or (iii) a DEC facility registration. For those generators registered in EDRP prior to May 1, 2002, evidence of application for or receipt of the appropriate DEC permit must be submitted to the NYISO by May 1. Generators applying for EDRP registration after May 1, 2002 should submit evidence that they have applied for or received the appropriate DEC permit at the time they submit their EDRP registration to the NYISO.

Wherever supplies are available for delivery, program participants utilizing diesel fueled emergency generators will use ultra-low sulfur diesel fuel in generators that will be activated in response to a call, as well as for testing purposes. This fuel requirement applies to all tank fills made during the calendar year in which the customer has contracted to participate in the program. NYSERDA will facilitate the purchase and delivery of ultra-low sulfur diesel fuel and will make the determination as to when supplies are available fro purposes of this guideline.

Where a supply of ultra-low sulfur fuel is not available for delivery and a state agency is the project sponsor, the participating state agency will mitigate the use of regular diesel fuel by purchasing ultra-low sulfur fuel for displacement of regular diesel fuel at a level that is no less than three times the amount of regular diesel fuel that would be expected to have been consumed by generators participating in its emergency self-generation program.

In addition to the above mitigation measures, the program will be limited to:

a). Model year 1995 or newer generators; or

b). Model 1994 and older generators that have undergone a current stack test for emissions and efficiency and have been subject to a "test and tune" consistent with industry established protocols (such as the American Society of Testing and Materials [ASTM] D6522-00) and applicable DEC regulations.

5.2.2 Reimbursement of Expenses

NYSERDA will reimburse SBC eligible customers up to 100% of qualifying costs for expenses involved in preparing for participation in the program. For all non-SBC eligible customers, expenses will be reimbursed by the participating agency or authority as provided for in the respective demand reduction program.

Eligible expenses include; testing and tuning of emergency generators, advanced metering, communications and control devices, rewiring circuits, installation of transfer switchgear, environmental permitting, selective catalytic reduction technologies, stack modification, operational improvements, cost differential (if any) for use of ultra-low sulfur fuel, and implementation of advanced dual-fuel options.

5.3 Notification Procedures

When the NYISO activates the Emergency Demand Response Program (EDRP) and/or calls upon the ICAP Special Case Resources, a specific set of messages will be sent to Curtailment Service Providers (CSPs). A CSP will be asked to take certain actions in response to NYISO notification. This section describes the contact procedures and actions that will be requested of CSPs.

The time frame for advisory and activation notices will be a function of the degree of warning the NYISO has in identifying and responding to operating reserve shortages / major emergencies.

Notification from the NYISO will always take place via two communications media:

1. A burst e-mail message to EDRP participants requesting specific action. If you participate in both the SCR and EDRP programs, you will receive two e-mail messages for verification purposes.

2. Phone calls will be made, beginning with the main contact, and proceeding down the list of contacts in an attempt to make a connection. If necessary, the NYISO will call additional cell phone and pager numbers in an attempt to make a connection.

In making the phone calls, NYISO staff will identify themselves by name and indicate that the NYISO has activated the EDRP and/or SCR programs, followed by the specific requests below.

5.3.1 Day-Ahead Advisory

Advisory notice – EDRP resources may be needed tomorrow – please respond via e-mail to edrpscr@nyiso.com within one hour indicating:

If you expect to have resources participating, and

• MWs expected, divided into interruptible load and local generation.

Day-ahead notice does not constitute activation of the EDRP program, and is only meant to be advisory.

5.3.2 In-Day Advisory

<u>Advisory notice – EDRP resources may be needed later today between HOURS BEGINNING XX</u> <u>through XX. The NYISO will verify that the program has been enacted as soon as practical. Please</u> <u>respond to EDRP-SCR@nyiso.com within one hour indicating:</u>

If you expect to have resources participating, and

MWs expected, divided into interruptible load and local generation.

In-day notice does not constitute activation of the EDRP program, and is only meant to be advisory.

5.3.3 Canceling an In-Day Advisory

At this time, the NYISO does not intend to call upon participants in the Emergency Demand Response and Special Case Resource programs to perform services associated with these programs for today. We thank participants for their timely responses to the Advisory Notifications that were sent this morning.

5.3.4 Activating EDRP – 2-Hour Notification

Activation notice – EDRP resources are needed from xx:xx to yy:yy today.

5.3.5 Activating EDRP – Immediate Notice

Activation notice – EDRP resources that can respond immediately are needed from xx:xx to yy:yy today

5.3.6 Extending an EDRP Event

Continuation notice – the call for EDRP resources will be extended until xx:xx.

5.3.7 Terminating an EDRP Event

Termination notice – EDRP resources are no longer needed to respond.

6.1 Metering Requirements

By June 1, 2002 CSP<u>s</u>-Direct customers and CSP-NYISO approved Curtailment Program End Use Customers must use certified Meter Service Providers (MSP) or utilities to install meters and Meter Data Service Providers (MDSP) to read meters. CSP-Curtailment Customer aggregators and CSP-LSEs must use certified MSP and MDSP or be qualified to perform MSP and MDSP responsibilities. Utility or MDSP certification is required is needed to read the revenue grade meter on load. Acceptable interval metering for Demand Side Resources for load reduction or local generation is described below in Section 6.1.1.

6.1.1 Metering Device Requirements

Meters installed under the 2001 EDRP rules can be used as the source of EDRP event reporting data for 2002.

(Alternate version 1 language) Hourly interval metering data is required to validate performance. Demand Side Resources providing load reduction only must may use the revenue metering on the load as the source of performance data. If the revenue metering does not provide hourly interval data, an hourly interval meter or a KYZ pulse output must be installed by a certified MSP or the local distribution utility. If the installation is performed by an MSP, the MSP must certify that the device and the installation comply with all state and local code requirements. Demand Side Resources providing Local Generation only, not validated by the revenue metering, may be metered initially with a properly installed and calibrated integrated hourly metering device that is certified by a Professional Engineer as meeting ANSI C12 standard. Such meters would be periodically tested and calibrated in accordance with the standards applicable to MSPs and MDSPs.

(Alternate version 2 language) Hourly interval metering data is required to validate performance. Demand Side Resources may use non-revenue interval metering devices with an overall accuracy of $\pm 2\%$ as the source of performance data. For each meter design used, the CSP will submit certification from the meter manufacturer that the model in question meets the $\pm 2\%$ accuracy threshold, recognizing errors in:

- Current measurement
- Voltage measurement
- A/D conversion
- Calibration

Such meters would be periodically tested and calibrated in accordance with the standards applicable to MSPs and MDSPs.

Where a revenue meter exists, losses in secondary/service circuits between the revenue meter and the non-revenue interval meter may be compensated for so as to bring the reading within ±2% of the revenue meter.

6.1.2 Metering Configuration Requirements

Premises participating in the EDRP shall subscribe under one of two configurations: Local Generation only or load only. Integrated hourly metering devices shall be required as follows:

1) When a premise subscribes only the Local Generation, <u>the an</u> hourly interval meter <u>shall can</u> be installed to measure the generator's output; or <u>interval metering of the total net load can be used.</u>

- 2) When a premise subscribes only the load, the hourly interval meter shall be installed to meter the entire facility or for totalized load, an hourly interval meter is required for each participating load.
- 3) When a premise subscribes both the Local Generation and load, metering can be configured so as to measure only the load or combined load and generation.

Figure 6.1 illustrates examples of acceptable configurations.



6.2 Calculation of Customer Baseline

6.2.1 Historical Operating Data

CSPs shall be required to provide historical operating data for each load or on-site generator upon registration for participation in the EDRP. These requirements may be met by:

1) For Local Generation participating in the NYISO Special Case Resource (SCR) program and the EDRP

NYISO forms required to qualify as a Special Case Resource will satisfy the requirement for the EDRP program; or

2) For Local Generation that is only participating the EDRP

For Local Generation that is participating in the EDRP, but not participating in the NYISO Special Case Resource program the generator meter ID and MSP ID certifying meter installation must be supplied on the End-Use registration form in Attachment B;

3) For loads with existing interval meters

Provide a minimum of 1 complete billing period of hourly interval data immediately preceding the first Capability Period the load will participate in;

4) For totalized loads with existing interval meters

For totalized loads, provide hourly interval data for a minimum of 1 complete billing period of hourly interval data for all participating loads at the premise; or

5) For newly installed load interval meters

For newly installed interval meters, provide the prior three month's summary of monthly kwh consumption and demand values, if available.

6.2.2 Baseline Calculation Method (Interruptible Load or Both Local Generation and Interruptible Load)

The Customer Baseline (CB) is the average hourly load, rounded to the nearest kWh, for each of the 24 hours in a day. The Customer Baseline type used for computing performance shall be the same day type as the day type of the EDRP event. Customer Baseline is required for EDRP metering configurations described in section 6.1.2 whenever load is participating in the EDRP program. For Local Generation, the generator output as metered will be used for performance as defined in section 6.3. For the EDRP program, the CBL calculation will be for the four-hour window associated with the minimum payment period.

Customer Baseline – Weekday (CB-WD):

Performance in satisfaction of a bid for hours h(i) to h(j) in day d(n) would be assessed against a CBL determined by:

1.Calculating the energy consumption during similar hours over the past 10 weekdays, beginning two days prior to the curtailment event and excluding days where curtailment due to participation in the EDRP or the Day-Ahead programs occurred.

kwh(k) = sum(h(i)...h(j)) for each day k = d(n-2)...d(n-11)

- 2.Selecting the 5 highest values of kwh(k) and use those days d(I), I = 1...5 to calculate the CBL.
- 3.Calculating the CBL for each hour h(i) as the average of the five h(i) values for days d(l), I = 1...5.
- 4.If more than 5 of the past 10 days have been excluded due to EDRP and/or Day-Ahead participation, look back beginning with day d(n-12) until 5 non-excluded days are found. In no cases will we go back further than day d(n-31).
- 5.If, after looking back 30 days, fewer than 5 days are eligible for the CBL calculation due to exclusions, use only those eligible days.

I. The Average Day CBL

A. Average Day CBLs for Weekdays

Step 1. Establish the CBL Window. Establish a set of days that will serve as representative of participant's typical usage.

A.1.a Determine the participant's peak hourly load over the past 30 days or the period covered by the load data file, whichever is smaller. This value becomes the initial seed value for the average event period usage level.

A.1.b Beginning with the weekday that is two days prior to the event:

- A.1.b.1 Eliminate any holidays as specified by the NYISO.
 - A.1.b.2 Eliminate any days where the NYISO declared an EDRP event for which the participant was eligible for payment for a curtailment.
 - A.1.b.3 Eliminate any days in which the participant's DADRP curtailment bid was accepted in the DAM, whether or not the participant actually curtailed.

- A.1.b.4 Create the average daily event period usage for that day, defined as the simple average of the participant's actual usage over the hours that define the event for which the CBL is being developed.
- A.1.b.5 Eliminate low usage days. If the average daily event period usage is less than 25% of the average event period usage level, eliminate that day.
- A.1.b.6 If the day has not been eliminated, update the average event period usage level by including the average daily event period usage for this day. If this is the first day added to the CBL Window, replace the average event period usage level (which was the initial seed value) with the average daily event period usage. Add this day to the CBL Window.

A.1.c Move back one day and loop to step A.1.b.1

A.1.d Final Weekday CBL Window must contain 10 weekdays days.

Step 2. Establish the CBL Basis. Identify the five days from the 10-day CBL Window to be used to develop CBL values for each hour of the event.

A.2.a Order the 10 days in the CBL Window according to their average daily event period usage level, and eliminate the five days with the lowest average daily event period usage.

A.2.b The remaining five days constitute the CBL Basis.

<u>Step 3. Calculate Average Day CBL values for the event.</u> <u>A.3.a</u> For each hour of the event, the CBL is the average of the usage in that hour in the five days that comprise the CBL basis.

B. Average Day CBL for Weekends

Step 1. Establish the CBL Window

B.1.a The CBL Window is comprised of the most recent three like (Saturday or Sunday) weekend days. There are no exclusions for Holidays or event days.

Step 2. Establish the CBL Basis.

B.2.a Calculate the average daily event period usage value for each of the three days in the CBL Window.

B.2.b Order the three days according to their average daily event period usage level.

B.2.c Eliminate the day with the lowest average value

B.2.d The Weekend CBL Basis contains 2 days.

 Step 3. Calculate Weekend Average Day CBL values for the event.

 B.3.a
 For each hour of the event, the CBL value is average of usage in that hour in the two days that comprise the CBL basis.

II. Elective Weather-Sensitive CBL formulation

Step 1. Calculate the Average Day CBL values for each hour of the event period described in (I) above.

Step 2. Calculate the Event Final Adjustment Factor. This factor is applied to each of the individual hourly values of the Average Day CBL.

A. Calculate the Adjustment Basis Average CBL

2.A.1 Establish the adjustment period, the two-hour period beginning with the start of the hour that is four hours prior to the commencement of the event through the end of the hour three hours prior to the event.
2.A.2 Calculate the Adjustment Basis Average CBL.

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2.A.2.a Apply the Average Day CBL formula as described in I. Average Day CBL (page 2), to the adjustment period hours as though it were an event period two hours in duration, but using the five days selected for use in the Average CBL Basis (i.e., average the ten hours).

2.A.2.b Calculate the average of the two usage values derived in 2.A.2.a, which is the Adjustment Basis Average CBL.

B. Calculate the Adjustment Basis Average Usage

2.B.1 The adjustment basis average usage is the simple average of the participant's usage over the two-hour adjustment period on the event day. C. Calculate the gross adjustment factor

- 2.C.1 The gross adjustment factor is equal to the Adjustment Basis Average Usage divided by the Adjustment Basis Average CBL
- D. Determine the Final adjustment factor. The final adjustment factor is as follows:
 2.D.1 If the gross adjustment factor is greater than 1.00, then the final adjustment factor is the smaller of the gross adjustment factor or 1.20

2.D.2 If the gross adjustment factor is less than 1.00, the final adjustment factors are the greater of the gross adjustment factor or .80.

2.D.3 If the gross adjustment factor is equal to 1.00, the final adjustment factor is equal to the gross adjustment factor.

Step 3. Calculate the Adjusted CBL values.

A. The Event Adjusted CBL value for each hour of an event is the product of the Final Adjustment Factor and the Average CBL value for that hour.

III. Selecting a CBL method

A.1 The participant selects the CBL formula when it registers, or is registered by its LSE or CSP, with the NYISO for program participation. The choice of CBL becomes effective when the NYISO accepts the registration.

A.2 At the initial registration to the PRL program, participants may elect either the Average Day CBL or the Adjusted CBL formula.

A.3 At the time that the new Adjustable CBL formulation becomes effective, registered participants in the PRL program may apply to change to the adjusted formula CBL method beginning thirty (30) days after such notification or to become effective May 1, 2002.

A.4 Participants may switch CBL methods by making application to the NYISO. For such a change applicable to the summer capability period (May 1 – October 31), the application must be submitted to NYISO by April 1. For a change applicable to the winter capability period (November 1 – April 30), the application must be submitted to NYISO by October 1. The change in the CBL formula becomes effective when the NYISO accepts the application.

6.2.3 Example Customer Baseline Calculation

As an example, Assume a 4-hour bid from <u>EDRP event was called from</u> 12 noon to 4 pm; notice was <u>sent out at 10 a.m.</u> was accepted. The past 10 days MWh consumption for similar hours-, along with the four hours prior to event initiation, was:

Time	Day n-2	Day n-3	Day n-4	Day n-5	Day n-6	Day n-7	Day n-8	Day n-9	Day n-10	Day n-11
<u>8-9</u>	<u>5</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>3</u>	<u>6</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>4</u>
<u>9-10</u>	<u>5</u>	<u>3</u>	<u>5</u>	<u>4</u>	<u>4</u>	2	<u>3</u>	<u>3</u>	2	4
<u>10-11</u>	<u>7</u>	<u>5</u>	<u>6</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>5</u>
<u>11-12</u>	<u>8</u>	<u>6</u>	<u>8</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>5</u>	<u>6</u>	<u>6</u>	<u>7</u>

12-1	10	8	9	7	10	12	5	7	7	8
1-2	11	6	12	8	11	8	8	8	6	10
2-3	7	9	9	6	9	9	8	8	6	9
3-4	5	6	7	6	7	7	6	7	5	6

Steps 1 and 2: sum the MWh for the appropriate hours <u>12-4</u> each day and select the 5 highest totals:

	MWh n-2	MWh n-3	MWh n-4	MWh n-5	MWh n-6	MWh n-7	MWh n-8	MWh n-9	MWh n-10	MWh n-11
	33	29	37	27	37	36	27	30	24	33
Selected?	Y		Y		Y	Y				Y

Step 3: Calculate the CBL for each hour using the five highest days selected:

Time	Day n-2	Day n-4	Day n-6	Day n-7	Day n-11	
	-			-	_	CBL
12-1	10	9	10	12	8	9.8
1-2	11	12	11	8	10	10.4
2-3	7	9	9	9	9	8.6
3-4	5	7	7	7	6	6.4

The CBL in the right-hand column above would be the non-weather –adjusted value. If this customer was signed up with the weather-sensitive calculation option, the CBL would be adjusted upward or downward based on the actual usage in the two hours prior to event notification. In this example, the Adjustment Basis Average CBL will be the average of the MWh for hours beginning 8 and 9 over the five days chosen for the CBL:

<u>Time</u>	<u>Day n-2</u>	<u>Day n-4</u>	<u>Day n-6</u>	<u>Day n-7</u>	<u>Day n-11</u>	
<u>8-9</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>6</u>	<u>4</u>	
<u>9-10</u>	<u>5</u>	<u>5</u>	<u>4</u>	<u>2</u>	<u>4</u>	
Average						<u>4.2</u>

On the day of the event (day n), assume the actual metered load consumption is as shown in the following table:

Hour Beginning	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>1</u>	2	<u>3</u>
<u>MWh</u>	<u>4</u>	<u>5</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>3</u>	<u>4</u>

In this case, the Adjustment Basis Average Usage is the average of the MWh in hours 8 and 9, or 4.5 MWh. The Gross Adjustment Factor is the ratio of the Adjustment Basis Average Usage to the Adjustment Basis Average CBL, 4.5/4.2 or 1.07. The CBL will therefore be adjusted upward by 1.07 – the following table shows the resulting new CBL and the computed load reduction for the four-hour event period.

Hour Beginning	<u>12</u>	1	<u>2</u>	<u>3</u>
Load (MWh)	2	3	3	4
CBL (MWh)	<u>10.5</u>	<u>11.1</u>	<u>9.2</u>	<u>6.8</u>
Load Reduction	<u>8.5</u>	<u>8.1</u>	<u>6.2</u>	<u>2.8</u>
<u>(MWh)</u>				

It is important to note that if the actual usage in the two hours prior to notification was *lower* than the Adjustment Basis Average CBL, the CBL curve would have been shifted *downward* and would result in load reduction performance that was lower than would have been determined using the Average Day CBL (without weather adjustment).

Weekend Days:

Saturday (CB-SA) and Sunday (CB-SU) CBLs will be computed separately.

- 1.Calculate the energy consumption during similar hours over the past 3 Saturdays/Sundays, excluding days where curtailment due to participation in the EDRP or the Day-Ahead programs occurred.
- 2.Select the 2 highest values of kwh and use those days to calculate the CBL.
- 3.Calculate the CBL for each hour h(i) as the average of the values for the 2 highest days.
- 4.Don't look back any more than 3 weekends to select the 2 highest periods (i.e, don't extend the window if exclusions occur).

Exclusion provisions:

Three types of exclusions are required when computing the calculation of the simple average: EDRP event days, days when load curtails as part of the Day-Ahead Load Reduction Program (DADRP), and shutdown days. :

- a)If one or more EDRP event days occur within the range of days used to calculate the Customer Baseline for the day of an EDRP event, the previous EDRP event day is eliminated from the average. The simple average for each hour is determined from the remaining days following the calculation provisions established above for the appropriate Customer Baseline day-type.
- b)If one or more DADRP event days occur within the range of days used to calculate the Customer Baseline for the day of a DADRP event, the previous DADRP event day is eliminated from the average. The simple average for each hour is determined from the remaining days following the calculation provisions established above for the appropriate Customer Baseline day type.
- c)In the case where a day included in the simple average contains 4 or more consecutive hours with hourly values are less than 75% of the simple average for the corresponding hour, that day is excluded and the simple average is determined from the remaining days following the calculation provisions established above for the appropriate Customer Baseline day type.

6.2.3 Baseline Calculation Method (Local Generation Only)

For Local Generation using separate metering, a similar CBL calculation is used to eliminate any base load portion of generation from the actual performance during the event.

1.Calculate the Local Generation during similar hours over the past 10 weekdays, beginning two days prior to the curtailment event and excluding days where curtailment due to participation in the EDRP or the Day Ahead programs occurred.

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- 2.Select the 5 lowest values of kwh(k) and use those days d(l), I = 1...5 to calculate the CBL.
- 3.Calculate the CBL for each hour h(i) as the average of the five h(i) values for days d(l), I = 1...5.

- 4.If more than 5 of the past 10 days have been excluded due to EDRP and/or Day-Ahead participation, look back beginning with day d(n-12) until 5 non-excluded days are found. In no case go back further than day d(n-31).
- 5.If, after looking back 30 days, fewer than 5 days are eligible for the CBL calculation due to exclusions, use only those eligible days.

6.3 Performance Measurements and Compliance

6.3.1 Performance

Performance for metering configurations where load reduction is included is measured as the difference between the Customer Baseline and the actual metered usage by hour during the event. The Customer Baseline type used for computing performance shall be the same day-type as the day-type of the EDRP event. For Local Generation, the generator output as metered will be used for performance as defined below. The equations are given for the alternative metering configurations shown in Figure 6.1.

Load Only Configuration

For premises subscribing only the load, performance for each hour shall be calculated as:

 $P_h = (CB-xx)_h - AL_h$ (Meter configuration 6.1a) $P_h = (CB-xx)_h - AN_h$ (Meter configuration 6.1b and 6.1c)

Where P_h = performance for the hour

CB-xx_h = Customer Baseline day-type (weekday – CB-WD, Saturday-CB-SA, or Sunday-CB-SU) for the hour as calculated using the simple average method described above in Section 6.2.2

AL_h = actual load for the hour using meter L in configuration 6.1a

 AN_h = actual load for the hour using meter N in configuration 6.1b and 6.1c

Local Generation Only Configuration

For premises subscribing only Local Generation, performance for each hour shall be calculated as:

$$P_h = OG_h - (GCB-xx)_h$$

Where P_h = performance for the hour

- OG_h = Metered On-site generator output for the hour using meter G in either configuration 6.1a or 6.1b
- GCB-xx_h = Customer Baseline day-type (weekday GCB-WD, Saturday GCB-SA or Sunday GCB-SU) for the hour h as determined for Local Generation described in Section 6.2.3.

Load and Local Generation Configuration

For premises subscribing both the Local Generation and the load and participating in the same EDRP event, performance for each hour shall be the net of Local Generation and load as defined below:

 $\begin{aligned} \mathsf{P}_{\mathsf{h}} &= [\mathsf{OG}_{\mathsf{h}}\text{-}(\mathsf{GCB}\text{-}\mathsf{xx})_{\mathsf{h}}] + [(\mathsf{CB}\text{-}\mathsf{xx})_{\mathsf{h}} - \mathsf{AL}_{\mathsf{h}}] \text{ (Meter configuration 6.1a)} \\ \mathsf{P}_{\mathsf{h}} &= (\mathsf{CB}\text{-}\mathsf{xx})_{\mathsf{h}} - \mathsf{AN}_{\mathsf{h}} \text{ (Meter configuration 6.1b and 6.1c)} \end{aligned}$

Where P_h = performance for the hour

OG_h = Metered On-site generator output for the hour

- GCB-xx_h = Customer Baseline day-type (weekday GCB-WD, Saturday GCB-SA or Sunday GCB-SU) for the hour h as determined for Local Generation described in Section 6.2.3.
- CB-xx_h = Customer Baseline day-type (weekday CB-WD, Saturday-CB-SA, or Sunday-CB-SU) for the hour as calculated using the simple average method described above in Section 6.2.2

 AL_h = actual load for the hour using meter L in configuration 6.1a

 AN_h = actual load for the hour using meter N in configuration 6.1b and 6.1c

6.3.2 Compliance

Initial Compliance

Initial Compliance (IC) is measured as the first event hour in which performance in the hour is greater than zero <u>(actual</u> load is less than baseline).

Final Compliance (Restored Load)

Final Compliance (FC) is measured as the last hour in which performance is greater than zero, or the last hour of the EDRP event, whichever is earlier.

Compliance Period

The Compliance Period includes every hour in the EDRP event in which performance was greater than zero, beginning with the Initial Compliance hour and ending with the Final Compliance hour or the end of the EDRP event, whichever is earlier.

Table 6.1 illustrates examples of Initial Compliance and Final Compliance for an event starting at noon and lasting for five hours.

		_	NYISC	DEDRP	Event	J	-		-
	10 - 11AM	11- 12 AM	12 - 1 PM	1 - 2 PM	2 - 3 PM	3 - 4 PM	4 -5 PM	5 - 6 PM	6 -7 PM
Custom	er 1								
BL	125	125	125	125	150	150	150	150	125
AL	130	120	110	100	100	125	150	160	140
Performa	ance	5	15	25	50	25	0		
			IC	Р	Р	FC			
Complia	nce Perio	t l							
Custom	er 2								
BL	200	200	250	250	250	200	200	200	200
AL	200	200	250	225	200	175	175	175	200
Performa	ance		0	25	50	25	25	25	
				IC	Р	Р	FC		
Complia	nce Perio	d							
Custom	er 3								
BL	300	300	350	350	350	300	300	300	300
AL	300	300	350	325	325	325	275	275	300
Performa	ance		0	25	25	0	25	25	
				IC	Р	Р	FC		
Complia	nce Perio	d							
Legend	BL = Bas				al Complia			P = Perfo	rmance
	AL = Actual Load				al Compli	ance			

Table 6.1 - Examples of Performance during an EDRP Event

6.4 Settlement Procedures

CSPs shall provide verification of load reduced within 45 days of the emergency by providing interval billing meter data to the NYISO. Verification of load reduction not received by the NYISO within 45 days of the emergency may not be compensated pursuant to this program. All load reduction is subject to NYISO audit, and market monitoring unit review. The NYISO will be responsible for settlement payment.

6.4.1 Data Submission

A CSP will submit the response(s) of the Demand Side Resource(s) that participated in the emergency event to the NYISO within 45 days of the event being called. Failure to so provide such data will result in a CSP not receiving payment for its participation in the EDRP. In cases where the CSP is not the Meter Data Service Provider (MDSP), upon receipt of the data by the NYISO, the NYISO will immediately forward the data to the MDSP (in most, if not all, cases the Transmission Owner) for optional review. After 14 calendar days the NYISO will accept the data as submitted unless challenged by the MDSP. The ISO maintains the ability to subsequently review the data through the Market Monitoring Unit.

6.4.2 EDRP Reporting

In establishing the reporting requirements for this program, information regarding the identity of Demand Side Resources participating in this program shall be treated as confidential by the NYISO, and will not be shared with third parties.

1.Event Participation Report – One for each load or Local Generation resource participating in a CSP's EDRP program;

2.Zone Detail Report - Records results of individual Event Participation Reports;

3.Zone Recap - Totals all Zone Detail Reports by Zone;

4.CSP Event Participation Summary Report – Reports load reductions and Local Generation by zone for payment.

6.4.3 Demand Side Resource Reduction Data

A CSP will submit response(s) of the Demand Side Resource(s) or Local Generation that participated in the emergency event aggregated by hour and by zone.

- a) Where the CSP's Demand Side Resource response is based on individual end-use loads alone or for premises with both participating load and Local Generation, the CSP is required to provide metered hourly interval data for each load and the Local Generation for the entire billing period in which the EDRP event occurred.
- b) Where the CSP's Demand Side Resource response is provided only from Local Generation, the CSP shall provide interval data for the 24-hour period ending midnight of the day of the EDRP event.
- c) If the EDRP event occurs less than 10 days into a billing period for any end-use load or premises with participating load and Local Generation, the prior month's bill period data must also be provided for that end-use load and Local Generation.

6.4.4 Data Format

Individual end-use or Local Generation hourly interval load data for the billing period in which an EDRP event occurred shall be submitted in electronic form to the NYISO in one of the following formats:

- a) <u>MV-90 Row-Day format; Excel spreadsheet format (Event Participation Summary Report) as</u> <u>described in Attachment C. A template can be found on the NYISO website at:</u> <u>http://www.nyiso.com/services/documents/groups/bic_price_responsive_wg/demand_response</u>
- b) Comma-Separated Variable format <u>as described in Attachment D.with the following minimum</u> entries: meter ID, account number, date, hourly values from hour ending 01:00 through hour ending 24:00 for the entire billing period;

CSPs should submit one file per day containing meter and CBL data for all participants.

c) other standardized formats as defined by NYISO.

Electronic data files may be submitted via one of the following methods:

b)a)e-mail to: dlawrence@nyiso.com or edrp-scr@nyiso.com;;

<u>e}b)</u>CD-ROM or other electronic medium;

<u>d)c)other methods as defined by NYISO.</u>

6.5 Energy Payments

6.5.1 Calculation of Payments

The NYISO will calculate the payment to CSPs using the following formula:

If the Emergency is four hours or longer:

 $P_h * max($500, LBMP_{RT Zonal, h})$ for each hour *h* of the emergency

If the Emergency is less than four hours:

P_h * max(\$500, LBMP _{RT Zonal, h}) for each of the first two hours *h* of the emergency, or for the duration of the emergency, whichever is greater (a minimum two-hour payment for performance)
 P_h * LBMP _{RT Zonal, h} for the remainder of the four-hour period.

 P_h = performance during hour *h* as defined in Section 6.3.1 LBMP _{RT Zonal, h} = Real-time zonal LBMP for hour *h*

In most cases, NYISO Operators will specify a start and end time for the curtailment event. This information will be provided at least two hours prior to the starting time. Demand Side Resources will be expected to begin curtailment at the specified starting time. Participants who respond to a notice will be paid for performance in accordance with the above formulas for either the length of the curtailment period or four hours, whichever is greater. The four-hour minimum payment period will begin at the time when the NYISO directs the retail end user to reduce load or, if load reduction is requested as soon as possible, when the retail end user begins his load reduction response.

CSPs that fail to provide load reduction when requested by the NYISO incur no penalties for failure to respond to the EDRP.

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6.5.2 Distribution of Payments

Payments will be made by the NYISO directly to the CSPs.

Payments will be made by the ISO as part of the monthly bill generated by the ISO. The bill will record the payment as an emergency energy payment and will break down the payment by total kWh by zone, hourly zonal price, and total payment. These payments will be made to the CSPs for all emergencies which have had data submitted and approved in accordance with the data policy prior to the end of the month.

6.5.3 Verification, Errors and Fraud

All load reduction data is subject to audit by the NYISO and its Market Monitoring unit. Disputes concerning erroneous payments shall be resolved through the ISO's Dispute Resolution Procedures.

If the ISO in it's review of the CSP's account determines the CSP or one of its customers has committed fraud to extract EDRP payments from the ISO, the ISO will have the right to ban the CSP or the CSP's customer from the EDRP as well as pursue all of the ISO's legal rights, at its sole discretion.

6.6 Assessment of Program Charges

6.6.1 Objectives of Cost Allocation

The costs for the program will equal the sum of all payments to customers calculated and paid out under Section 6.5.1.

In general, cost allocations should be designed with fairness and market efficiency (i.e., sending the correct price signals) in mind. If it can be determined that some locations provoke the need for a service and/or benefit from that service, then it is proper (from both a fairness and market efficiency perspective) to charge loads in those locations for the service specifically.

In the case of the EDRP, the cost allocation method should be done on a Zonal rather than statewide (i.e., "all loads - every time") basis so that price signals will be produced that help encourage reliability improvements *where* reliability needs to be improved.

6.6.2 Causes for EDRP Being Invoked

EDRP will be invoked during situations in which one or both of the following actually occur or are predicted to occur *within a specific Zone or set of Zones*:

EDRP Condition 1

Internal Load exceeds Available (Internal) Generation plus Import Capability

Where Import Capability equals the lesser of Transmission Import Capability for that Zone (or set of Zones) **OR** Supply Available for Import via that Transmission

EDRP Condition 2

Locational Operating Reserve Requirements **exceed** Available Operating Reserves.

6.6.3 EDRP Cost Allocation

Based upon the objectives for cost allocation and the causes for initiating the EDRP (i.e., Conditions 1 and 2 as defined above), the following cost allocation method will be used:

Costs associated with EDRP will be allocated to all Loads in Zones for which EDRP will directly help to alleviate Conditions 1 and or 2.

The above rule translates into the following table:

Table 6.2 Emergency Demand Reduction Program Cost Allocation						
Location of Condition 1 and/or 2 EDR Cost Alloca						
All or Part of One NYCA Zone (including relief for Local Reliability Rule problems within a Zone as requested by a TO)	All Loads in that Zone (L_z)					
Two or More NYCA Zones	All Loads in those Zones (L_{zsum})					
All Zones in NYCA	All Loads in NYCA (L _{system})					
An External Control Area	The External Control Area (L _{external})					

6.6.4. Cost Allocation Formula

The monthly charge for EDRP payments will be recovered from all Transmission Customers, and will be calculated as the product of (A) payments made to Curtailment Service Providers and (B) the ratio of (i) the customer's billing units for the month to (ii) the sum of all billing units during that month.

Billing units shall be based on the Actual Energy Withdrawals for all Transmission Service to supply Load in the NYCA, and hourly Energy schedules for all Wheels Throughs and Exports. To the extent that the ISO activates the Emergency Demand Response Program in response to an Emergency or a real-time locational Operating Reserves shortage or a peak forecast of an Operating Reserves shortage in a particular zone or zones, including relief to meet a Local Reliability Rule within a zone as requested by a Transmission Owner, the billing units for such charges will be based on the Actual Energy Withdrawals in the affected zone(s) during the hours in which the Emergency Demand Response Program was activated.

LSEs shall also be required to pay the monthly charges calculated above for Transmission Customers, which the LSE serves as retail access customers.

This charge will appear as a distinct line item on the customer bill and will have supporting material that will include the amount of load response for each hour of the emergency.

6.7 Timeline for Settlement



Days from Curtailment Event



For the month immediately following the calculation of revenues to be paid to the CSP:

- Approximately on 8th of following month NYISO bills are generated; costs and revenues will be posted to the CSP and LSE Billing Statements
- Approximately on 16th payments are due from the LSEs
- Approximately on 22nd revenues will be due from the ISO to the CSPs

7.0 References

- [1] latest ICAP manual. Stage 2 ICAP Manual for Winter 2001-2002 (available on NYISO website at http://www.nyiso.com/services/documents/manuals/pdf/planning_manuals/icap_manual.pdf).
- [2] OATT (or Services Tariff) where NYISO members are defined. Market Administration and Control Area Services Tariff (available on NYISO website at http://www.nyiso.com/services/oatt.html).
- [3] Section 4.4.1 of the NYISO Emergency Operations Manual. (available on NYISO website at http://www.nyiso.com/services/documents/manuals/pdf/oper_manuals/em_op_pro.pdf)
- [4] Section 3.2 of the <u>NYISO</u> Emergency Operations Manual-<u>(available on NYISO website at http://www.nyiso.com/services/documents/manuals/pdf/oper_manuals/em_op_pro.pdf).</u>

Emergency Demand Response Program (EDRP)

Entities applying for Curtailment Services Provider status under the Emergency Demand Response Program (EDRP) are advised that, as of April 17, 2001, the NYISO will begin accepting application paperwork for processing. The program will formally begin operation on the date of approval of the EDRP tariff by the Federal Energy Regulatory Commission (FERC). The NYISO fully expects that FERC will approve the EDRP tariff in a timely manner. In the unlikely event that FERC disapproves the EDRP tariff filing, the NYISO assumes no liability for damages, losses, claims, demands, suits, recoveries, costs and expenses, court costs, attorney fees, and other obligations by or to third parties, arising out of or resulting from the applicant's effort to subscribe Demand Side Resources.

The requirements for EDRP suppliers are controlled by the New York Independent System Operator's Services Tariff ("ISO Services Tariff") and the "NYISO Emergency Demand Response Program Manual".

This form must be faxed to 518-356-62086146, attention: Manager EDRP or e-mailed to dlawrence@nyiso.com or edrp-scr@nyiso.com

Operations Contact Information

All communications by the NYISO during an EDRP event will be sent to the primary and secondary contacts listed below (additional contacts should be provided on a separate sheet).

Primary Contac	t Name:
Organization:	
Address:	
Phone:	
Cell phone:	
Pager:	
Fax:	
E-mail:	
	tact Name:
Organization:	
Address:	
Phone:	
Cell phone:	
Pager:	
Fax:	
E-mail:	
Cell phone: Pager: Fax:	

Administrative Contact Information

All inquiries and notices of an administrative nature by the NYISO will be sent to the address provided below.

Name: Organization: Address:			
Phone: Cell phone: Pager: Fax: E-mail:			
Check Only One	e – Which type of organizatio	n are you?	
Curtailment Cust		Direct Customer	Curtailment Program End Use Customer
Aggregator	Load Serving Entity		
program. See Ma Please check all	anual Section 4 for application i the LBMP zone(s) in which you	requirements)	
West ⊡ North ⊡	Genesee ⊐ Mohawk Valley		Central 🗖 Capital 🗇
Hudson Valley	Millwood Long Island		Dunwoodie 🗖
	s that it meets the requirements ained in this form and its attach		
Furthermore, the	CSP agrees to participate in a	ny NYISO sponsored	EDRP Program evaluations.
	HEREOF, this Curtailment Serv been submitted on this, the		ency Demand Response Program , 20
NAME OF CSP S	SUPPLIER:		-
Name:			_
Title:			
Authorize	ed Representative Signature		

Attachment B - Emergency Demand Response Program – End Use

Customer Registration

	e emailed to dlawren or each Demand Side	ce@nyiso.com e Resource Registered by the CSP)	
NOTE: The i	nformation in this	section is optional.	
Organization: Street Address:		·	
		se Program (EDRP) Load Certificat	
Name of energy	/ provider for this Der	nand Side Resource:	
		/ (LDC):	
LDC's Electric A	Account Number (s) f	or Demand Side Resource:	
Meter Service F	rovider:		
Amount of Intern For on-Site Ger	ruptible Load nerators, Capacity Ra	unded to nearest 0.1 MW) MW (rounded to nearest 0.1 MW) ting MW (rounded to nearest 0. herator I Interruptible Load I Gen + Int. Lo	
		mergency Exempt	-
DEC Permit Sta	itus (check one):	Applied for (supply copy of app.)	
		Permit received (supply copy of permit)	•
Type of EDR (cl	heck one) 🗖 on-Site	Generator II Interruptible Load II Gen + In	
31 X	g (check all that appl	•	
51	• • • •	Meter ID #:	
		nerator / interrupted load Meter ID#:	
		rator, if new date installed or to be installed	
Meter ID #:	U U	-	
	tification if new meter	r	
		er supplying Demand Side Resource:	
Period for which	1 CSP will supply Der	mand Side Resource:// to/	_/

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Authorized Representative of Curtailment Service Provider		
Customer Aggregator		
Authorized Representative of End Use Customer	Date	

Attachment C - Example Settlement Calculation

An emergency is issued on July 1, 2001 at 4pm The customer responds by reducing their demand by 10MW The emergency lasts for 4 hours The emergency was activated to relieve a local system emergency in zone J

 The market prices are:

 Hour ending:

 5 PM

 6 PM

 \$600

 7PM

 \$600

 8PM

Using the formulas from above the revenues are: (10 * 600) + (10*600) + (10*600) + (10*500) = \$23,000

Data is submitted to the ISO on July 3rd by the CSP The ISO sends to data to the TO on July 5th The TO does not object to the data within 14 calendar days On approximately August 8th the bill is sent to the CSP with a credit of \$23,000 The payment is transferred to the CSP on approximately August 26th.

On August 8th a bill is sent out to all LSEs with a charge of \$23,000 * (LSE_{load}/Aggregate Zonal Load)

On August 16th the LSEs pay \$23,000

Attachment C -

NYISO Emergency Demand Response Program

End-Use Event Participation Form Detailed Instruction

Complete one (1) form fro each EDRP Demand Side Resource

This report identifies dates used for the CBL Basis, the CBL calculation dates, and the CBL and actual metered values used to compute the net load reduction/generator output for an EDRP event. The net load reduction/generator output for each participating Demand Side Resource is sent to the NYSIO in the EDRP Event Detail Data file.

Participant information section:

Date of EDRP Event	Date EDRP event was called	
CSP Name/ID	CSP Name or ID	
Name of LSE	Name of Load-Serving Entity for the Demand	
	Resource Side	
LSE's Electric Account No.:	LSE's Account number for the Demand Side	
	Resource	
Meter Number	Meter identifier	
Load Name	Account Name of the Demand Side Resource	
NYISO PTID	Point Identifier assigned by NYISO upon	
	registration of the Demand Side Resource	
LBMP Zone of EDRP Load	Zone location of the Demand Side Resource	
Type of EDR	If this metered account (premise) is using both on	
	site emergency generation and load curtailment for	
	the load reduction, check both boxes. (Formatted	
	as Monotype Sorts – use the 3 key on the	
	keyboard to make a check mark.)	
Type of EDR – On Site Generator	Check this box if the Demand Side Resource is	
	using on-site backup generation for load reduction	
	under EDRP. (Formatted as Monotype Sorts – use	
	the 3 key on the keyboard to make a check mark.)	
Type of EDR – Interruptible Load	Check this box if the Demand Side Resource will	
	curtail load for load reduction under EDRP.	
	(Formatted as Monotype Sorts – use the 3 key on	
Obeels her et left if Leed is Net Meters d	the keyboard to make a check mark.)	
Check box at left if Load is Net Metered	Check this box if this account is net metered.	
	(Formatted as Monotype Sorts – use the 3 key on	
	the keyboard to make a check mark.)	

Load Data - CBL Determination Data:

Dates Included in CBL	Enter the 10 days used as a basis for selecting the 5 days that make up the CBL – reverse chronological order (most recent day first)
Basis for this EDRP event	
Dates used for this EDRP event (check max. of 5)	
Dates Excluded:	
Reason	Enter Reason Code. If O – Other is used, also specify the reason the
	date was excluded from the CBL Basis

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Reason Codes	Four (4) possible codes: <u>E – EDRP participation</u> <u>D – DADRP participation</u> <u>S – Shutdown-calculated using NYISO provision</u> <u>O – Other – include a specific reason when using</u> <u>Other</u>
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Event Performance reporting section:

Enter the 24 hourly values that make up the
computed CBL (Col A1 for Load and Col A@ for
Metered On-site Generation
Enter the actual meter readings for the hours of the
EDRP event
Enter the generation output values (for EDRP
event hours only) for the separately metered on-
site emergency generation used during the EDRP
event
Compute the Hourly Performance using the
appropriate calculation shown in the Hourly
Performance Calculation box at the bottom of the
column – EDRP event hours only
Enter the name and contact information for the
individual preparing the form

Attachment D - .csv File Format for EDRP

The file format defined below can be used as an alternative to the spreadsheets found in Appendix D of the EDRP Manual for reporting event data to the NYISO. The format is intended to simplify the transfer of data from CSP's CBL and load reduction calculations to the NYISO's billing and accounting process.

The extra hour that appears at the time shift from DST to EST will be after the first hour beginning 2 and the missing hour that occurs during the time shift from EST to DST will be represented with one comma. For example, the hours will appear as 1,2,2,3,... and 1,3,4,... This format is only for EST/DST time change, all other times the file will follow the format below.

Procedure for Submitting Files Subsequent to an EDRP Event

<u>CSPs can submit either the Excel spreadsheet file defined in Attachment C of the EDRP Manual or the</u> .csv file defined in this Attachment. The table below identifies the types and numbers of files that should be submitted for each event.

Type of information	Appendix D Spreadsheet	. <u>csv file</u>		
End-Use Event Form	one sheet per demand side resource			
	participating in event	participating in event*		
*CSPs should zip all End-Use Event Files into one file prior to submitting to the NYISO				

Files should be e-mailed to either of the following addresses: dlawrence@nyiso.com edrp-scr@nyiso.com

Demand Side Resource Event Form

The Demand Side Resource event form mirrors the information specified in the End Use Participation Form found in Attachment C of the EDRP Manual. CSPs should complete one Demand Side Resource event form for each Demand Side Resource that participated in the EDRP event.

File Name (EDRP Event Data): CSPID_EDRPmmddyyyy.csv

- <u>CSPID:</u> Each CSP will receive a CSP ID upon registration. The CSP ID will be used as part of file names for reporting EDRP event data.
- PTID: Each End-Use will receive a PTID (PoinT IDentifier) upon registration. The PTID will be used to identify the Demand Side Resource participating in the EDRP event.

 $\frac{mm = month (01-12)}{dd = day (01-31)}$ yyyy = year (1999 - 2099)

The load values will be sent to a precision of three decimal digits.

<u>Note:</u> For readability, the format shown below includes spaces after each comma; the data file should <u>not include spaces after each comma.</u>

Example: Demand Side Resource Event Occurring on May 4, 2001 Filename. CSP Name, Curtailment Service Provider, NYISO PTID, xxx001, LBMP Zone of EDRP Load, C. <u>Type of EDRP, On-site Generator</u>, 0, Interruptible Load. 1, Load is Net metered. 1. Load data - CBL Determination Data. Dates included in CBL Basis, 5/2/2001, 5/1/2001, 4/30/2001, 4/27/2001, 4/26/2001, 4/25/2001, 4/24/2001, 4/23/200 1.4/13/2001.4/12/2001. Dates used for this EDRP event, 1, 1, 1, 0, 0, 1, 1, 0, 0, Dates Excluded that should otherwise be included in the CBL Basis for this event.4/20/2001.4/19/2001.4/18/2001.4/17/2001.4/16/2001. Reason dates excluded that should otherwise be included in the CBL Basis for this event.Shutdown, Shutdown, Shutdown, Shutdown, Shutdown, Hour of Day (hour ending).1.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25 LOAD Fill in simple average for each hour (CBL),1.1,1.1,1.2,1.2,1.2,1.2,1.2,1.2,1.3,1.3,1.4,1.4,1.5,1.5,1.6,1.6,1.6,1.6,1.6,1.6,1.5,1.5,1.4,1 .3,1.2,1.1 Metered on-site generation Fill in simple average for each hour (CBL), LOAD Fill in only EDRP event hours with actual meter <u>readings,,,,,,,,,1.3,1.14,1.</u>1,1.1,1. GENERATION: Fill in only EDRP event hours with actual meter readings, Prepared by. Date. . Phone. Fax. E-mail.