

DSS Task Force

April 20, 2004

For Discussion of:

**NYISO Decision Support System
Customer Settlements Data Mart**

Today's Agenda

- DSS Operational Update
 - ***Market Participant DSS Experience / Comments To-Date***
 - ***April Release Comments***
 - ***11/1999-02/2000 Final Invoice Data Update***
- DSS Project Update
 - ***Track & Team Reports / Status***
 - ***New Version History Mapping Report Design***
 - ***Cash Reconciliation Reports (\$ & MW) in DSS***
- Alternate Data Delivery Efforts –Review and Update
- DSS Did You Know?
 - ***PS Generator Output Charts***

DSS Operational Update

- Market Participant DSS Experience / Comments To-Date
 - *What are you doing with the DSS?*
 - *What issues are you experiencing?*
 - *See the ADD Announcement?*
- April Release Comments
 - *Additional Power Supplier Supporting Data*
 - ▶ DAM BPCG Credits to Gens – Start Up Component
 - ▶ RT BPCG Credits to Gens – Start Up Component
 - ▶ 10 Minute Reserve Shortfall Charge – Determinant Support
 - ▶ ELR DAM Margin Assurance Settlement
 - ▶ Power Supplier related determinant gaps from Release D
- 11/1999-02/2000 Final Invoice Data Update

Project Update / Status – Team Reports

➤ **Team Reports**

- *Requirements Team*
- *Application Team*
- *ETL Team*
- *QA Team*

➤ **New Version History Mapping Report Design**

➤ **Cash Reconciliation Reports (\$ & MW) in DSS**

- *Open to any changes?*

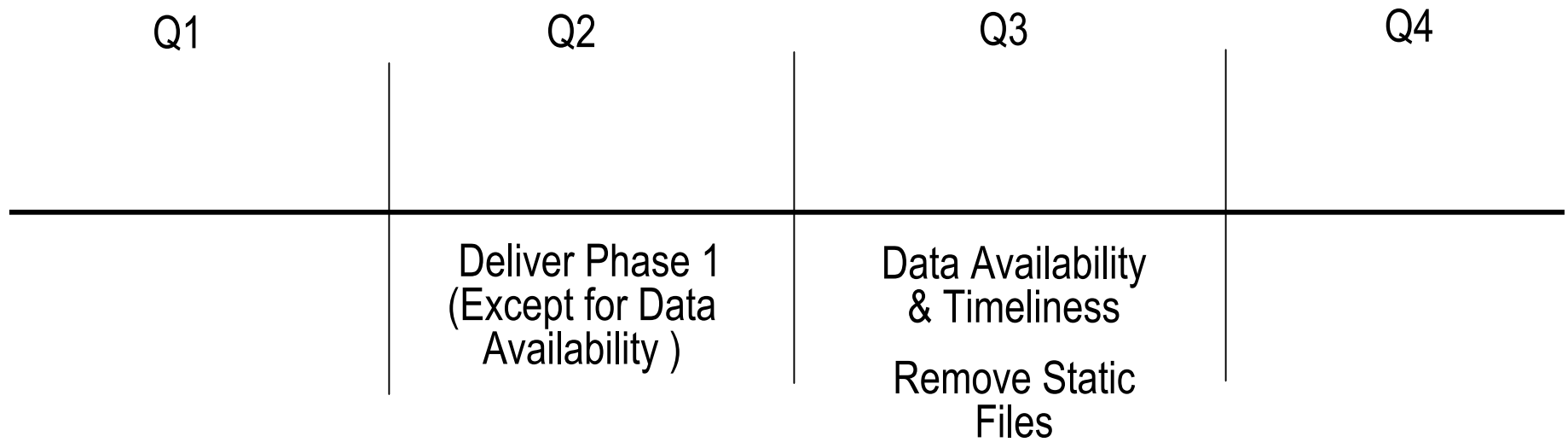
New York Independent System Operator Decision Support System

Settlement Version Report (Power Supplier Summary)

Billing Month March 2003

Settlement Type	4 Month Settlement		8 Month Settlement		12 Month Settlement		Total
Invoice Date	08/08/2003	Net Difference	11/11/2003	Net Difference	04/07/2004	Net Difference	March 2003
Number of days loaded to DSS	31		31		31		
Energy (MWh)							
300 Forward Energy	4,533,663.0	na	4,533,663.0	0.0	4,533,663.0	0.0	4,533,663.00
303 Balancing Energy	538,926.7535	na	539,215.1303	288.4	560,519.4690	21,304.3	560,519.47
Energy Settlement							
204/301 DAM Energy \$	359,758,756.84	na	359,758,756.84	-0.00	359,758,756.84	-0.00	359,758,756.84
209/304 Balancing Energy \$	40,353,447.44	na	40,362,672.77	39,225.33	41,650,759.93	1,258,087.16	41,650,759.93
Energy Total	400,112,204.28	na	400,151,429.61	39,225.33	401,409,516.77	1,258,087.16	401,409,516.77
Uplift							
302 DAM Bid Production Cost Guarantee \$	7,436,099.60	na	8,398,489.17	962,389.57	8,398,489.17	0.00	8,398,489.17
305 R/T Bid Production Cost Guarantee \$	8,825,905.03	na	8,746,974.29	-78,930.74	7,492,651.70	-1,254,322.59	7,492,651.70
238/313 DAM Margin Assurance \$	2,361,666.14	na	2,359,341.36	-2,324.78	2,404,860.09	45,518.73	2,404,860.09
239/313 DAM Margin Assurance LRR \$	28,826.67	na	28,826.67	0.00	28,839.89	13.22	28,839.89
Day ELR DAM Margin Assurance \$	0.00	na	0.00	0.00	0.00	0.00	0.00
Day ELR DAM MargAssrc - LRR \$	0.00	na	0.00	0.00	0.00	0.00	0.00
Uplift Total	18,652,497.44	na	19,533,631.49	881,134.05	18,324,840.85	-1,208,790.64	18,324,840.85
Ancillary Services							
Black Start Service							
312 Black Start Service \$		na		na	15,461.56	na	15,461.56
Voltage Support Service							
214/306 Voltage Support Service \$	2,656,379.65	na	2,648,496.89	-7,882.76	2,656,379.65	7,882.76	2,656,379.65
215/307 Voltage Support Service LOC \$	0.00	na	0.00	0.00	0.00	0.00	0.00
Regulation and Frequency Response Service							
Regulation DAM Availability \$		na		na	6,284,143.37	na	6,284,143.37
Regulation SUP Availability \$		na		na	47,744.12	na	47,744.12
221 Regulation Replacement \$		na		na	344.93	na	344.93
222/309 Regulation Penalty \$	1,186,347.78	na	999,042.29	-187,305.49	998,990.88	-51.41	998,990.88
Operating Reserve Service							
10Sync DAM Availability \$		na		na	3,243,052.47	na	3,243,052.47
10Sync SUP Availability \$		na		na	165,522.82	na	165,522.82
10Sync Reduction \$	81,698.67	na	81,698.67	0.00	81,698.67	0.00	81,698.67
10NonSync DAM Availability \$		na		na	755,601.25	na	755,601.25
10NonSync SUP Availability \$		na		na	59,784.29	na	59,784.29
10NonSync Reduction \$		na		na	41,599.50	na	41,599.50
30Minute DAM Availability \$		na		na	539,480.28	na	539,480.28
30Minute SUP Availability \$		na		na	26,755.13	na	26,755.13
30Minute Reduction \$		na		na	16,965.40	na	16,965.40
240 Operating Reserve LOC \$		na		na	387,260.82	na	387,260.82
246 10NonSync LOC \$		na		na	1,004,023.66	na	1,004,023.66
244 10Minute Shortfall \$	107,674.91	na	105,691.93	-1,982.98	105,691.93	-0.00	105,691.93
Total Ancillary Services:	4,032,101.01	na	3,834,929.78	-197,171.23	16,430,500.74	12,595,570.96	16,430,500.74
Power Supplier Total:	422,796,802.73	na	423,519,990.88	723,188.15	436,164,858.36	12,644,867.49	436,164,858.36

Tentative ADD Timeline - 2004



05/12/2004 – ADD Technical Specification published

06/30/2004 – ADD Delivery / Implementation

08/31/2004 – Static & Dynamic Advisory process removed

10/01/2004 – Removal of website / CD distribution of existing historical files

ADD – Design Considerations

- This interface will be limited to retrieving Settlement Days / Versions that are stored in the DSS.
- This interface will be limited to retrieving individual data elements that are stored in the DSS.
- Once settlement days are re-spun for un-invoiced days and versions, the prior version of data is over-written. The DSS only retains one un-invoiced version of the data at any time (version 0).
- The DSS is only loaded once per day, so requesting the same day and version of data within the same day is redundant. Polling the system for changes more than once per day is unnecessary.

ADD – Known Issues

➤ **Due to the Differences in Versioning Strategies:**

■ *Update vs. Insert*

- ▶ DSS keeps all un-invoiced versions of settlements data as V0. Therefore, as un-invoiced data is re-settled in BAS, we will re-issue V0.

■ *Un-Invoiced Data vs. Invoiced Data*

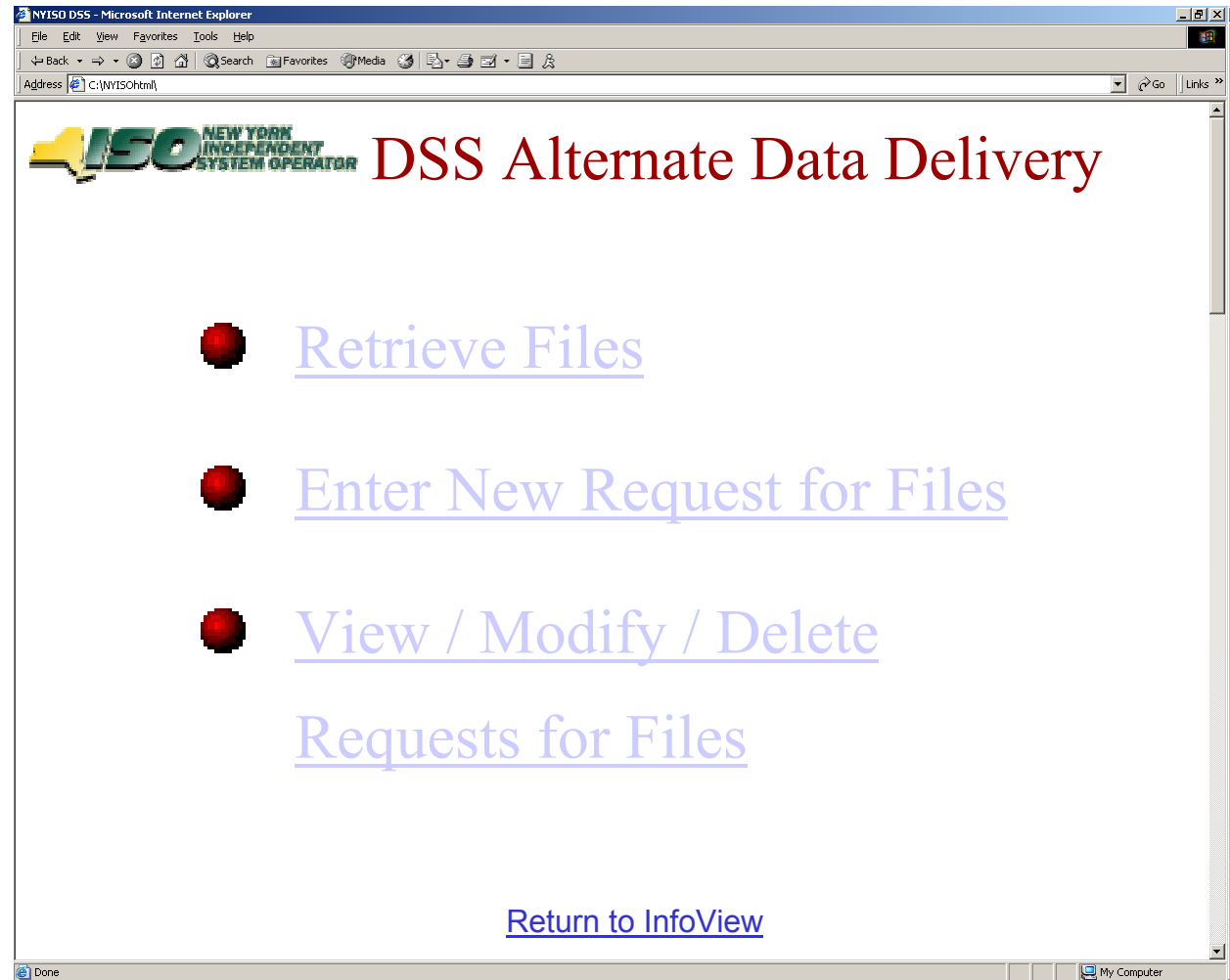
- ▶ There will have to be specific consideration of how to publish reports via ADD for invoiced data sets. Proposal is to automatically publish un-invoiced data, and allow users to request invoiced sets manually, if desired.

➤ **Filename Change**

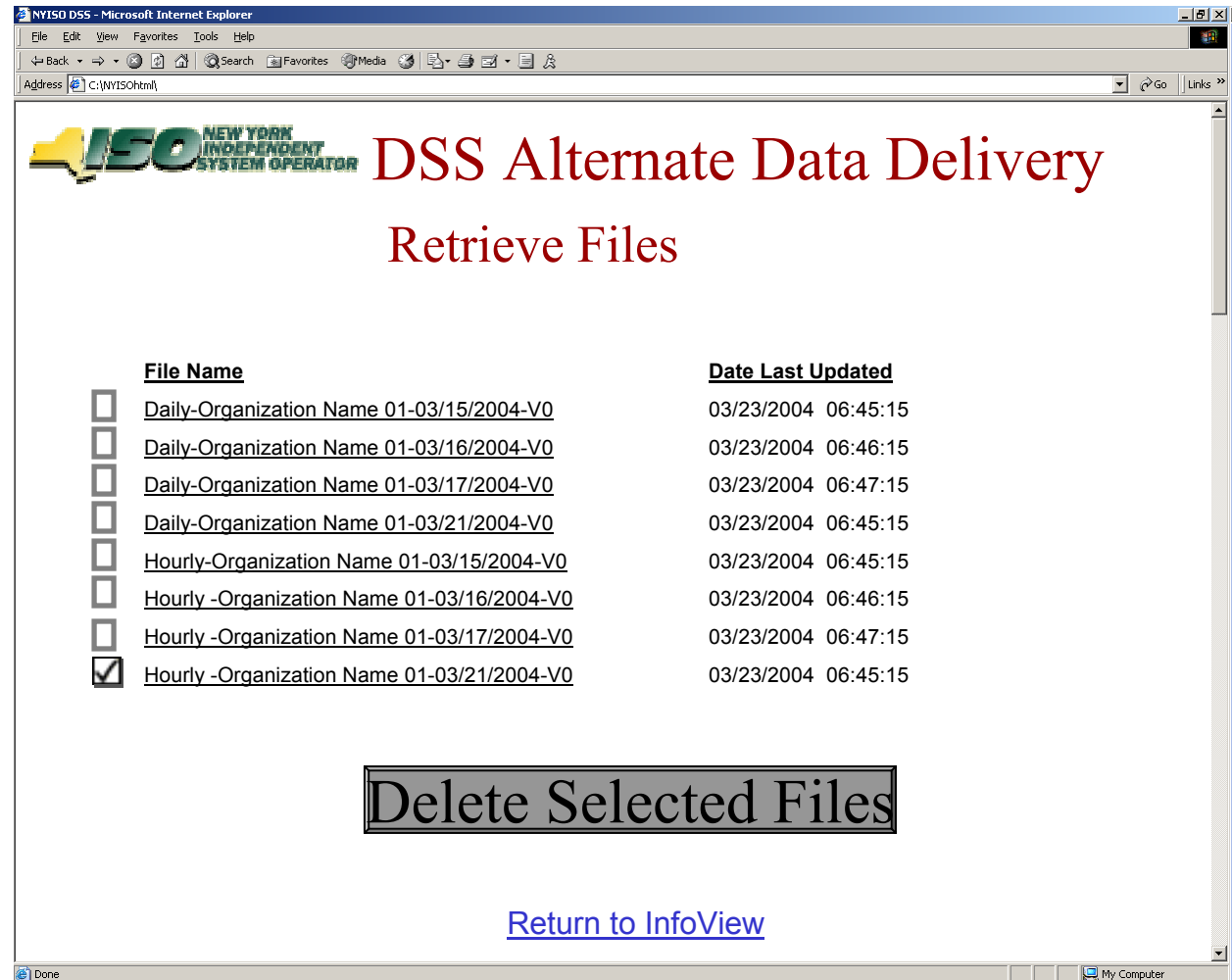
- *The advisory file names will need to include Organization Name.*

ADD Functional Overview

Users will link to this page from the InfoView Welcome Page.



ADD Functional Overview



DSS Alternate Data Delivery
Retrieve Files

<u>File Name</u>	<u>Date Last Updated</u>
<input type="checkbox"/> Daily-Organization Name 01-03/15/2004-V0	03/23/2004 06:45:15
<input type="checkbox"/> Daily-Organization Name 01-03/16/2004-V0	03/23/2004 06:46:15
<input type="checkbox"/> Daily-Organization Name 01-03/17/2004-V0	03/23/2004 06:47:15
<input type="checkbox"/> Daily-Organization Name 01-03/21/2004-V0	03/23/2004 06:45:15
<input type="checkbox"/> Hourly-Organization Name 01-03/15/2004-V0	03/23/2004 06:45:15
<input type="checkbox"/> Hourly -Organization Name 01-03/16/2004-V0	03/23/2004 06:46:15
<input type="checkbox"/> Hourly -Organization Name 01-03/17/2004-V0	03/23/2004 06:47:15
<input checked="" type="checkbox"/> Hourly -Organization Name 01-03/21/2004-V0	03/23/2004 06:45:15

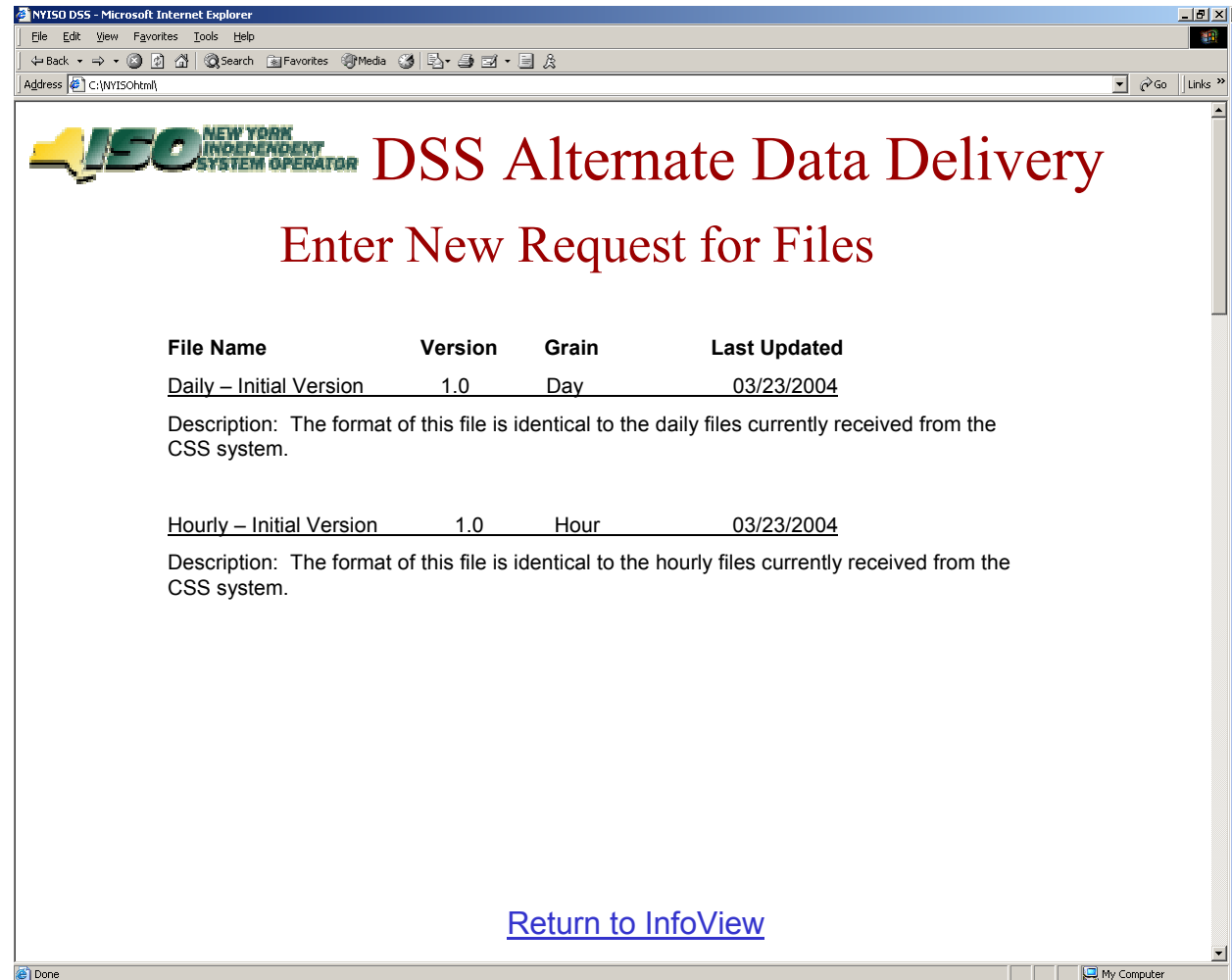
Delete Selected Files

[Return to InfoView](#)

Click File Name to Retrieve File.

Select Check Box to Delete.

ADD Functional Overview



NYISO DSS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\NWISOhtml

ISO NEW YORK INDEPENDENT SYSTEM OPERATOR **DSS Alternate Data Delivery**

Enter New Request for Files

File Name	Version	Grain	Last Updated
<u>Daily – Initial Version</u>	1.0	Day	03/23/2004
Description: The format of this file is identical to the daily files currently received from the CSS system.			
<u>Hourly – Initial Version</u>	1.0	Hour	03/23/2004
Description: The format of this file is identical to the hourly files currently received from the CSS system.			

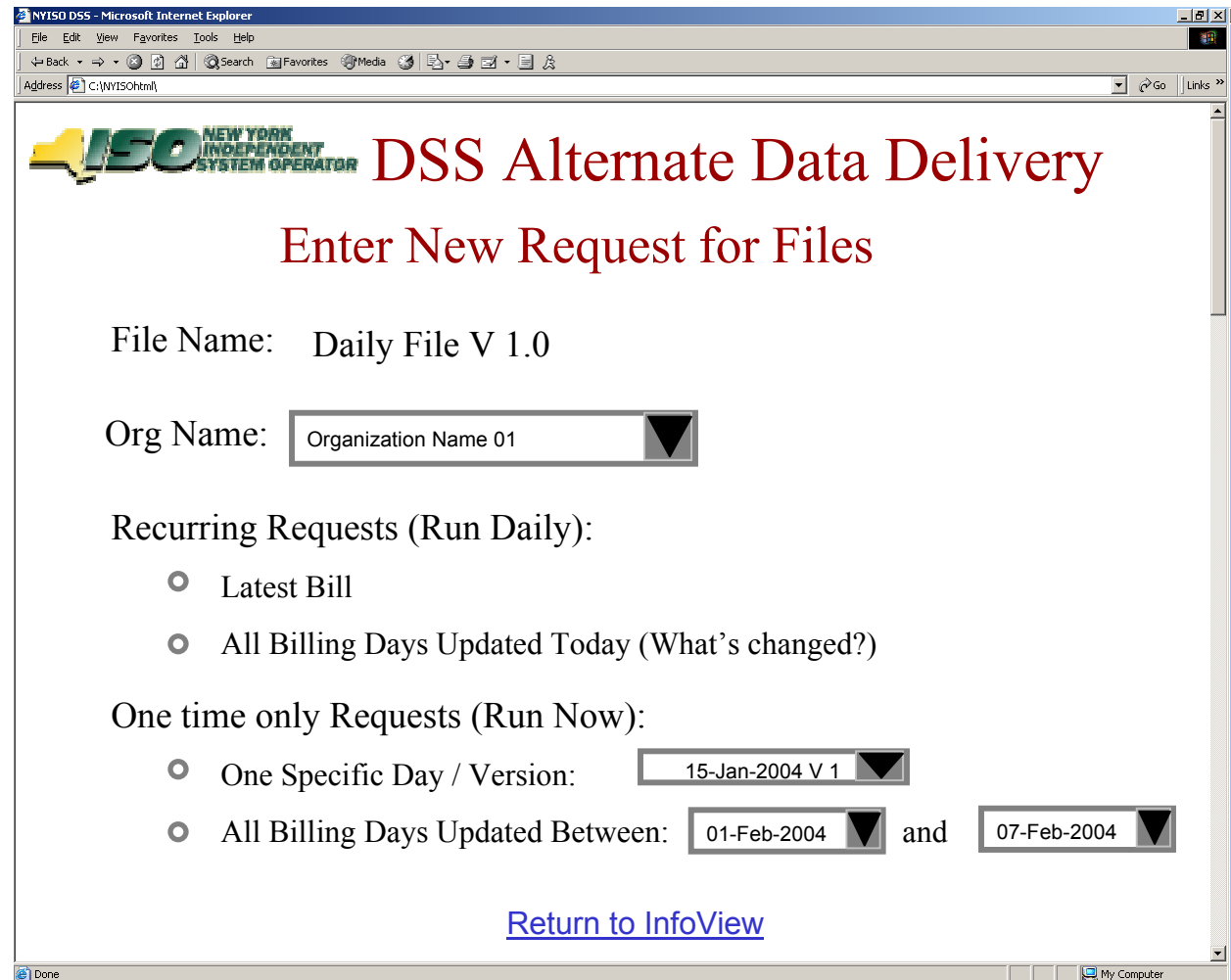
[Return to InfoView](#)

Done My Computer

Click File Name to Request File.

ADD Functional Overview

- One File Type per request
- One organization per request



NYISO DSS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\NWISOhtml

ISO NEW YORK INDEPENDENT SYSTEM OPERATOR **DSS Alternate Data Delivery**

Enter New Request for Files

File Name: Daily File V 1.0

Org Name: Organization Name 01

Recurring Requests (Run Daily):

- Latest Bill
- All Billing Days Updated Today (What's changed?)

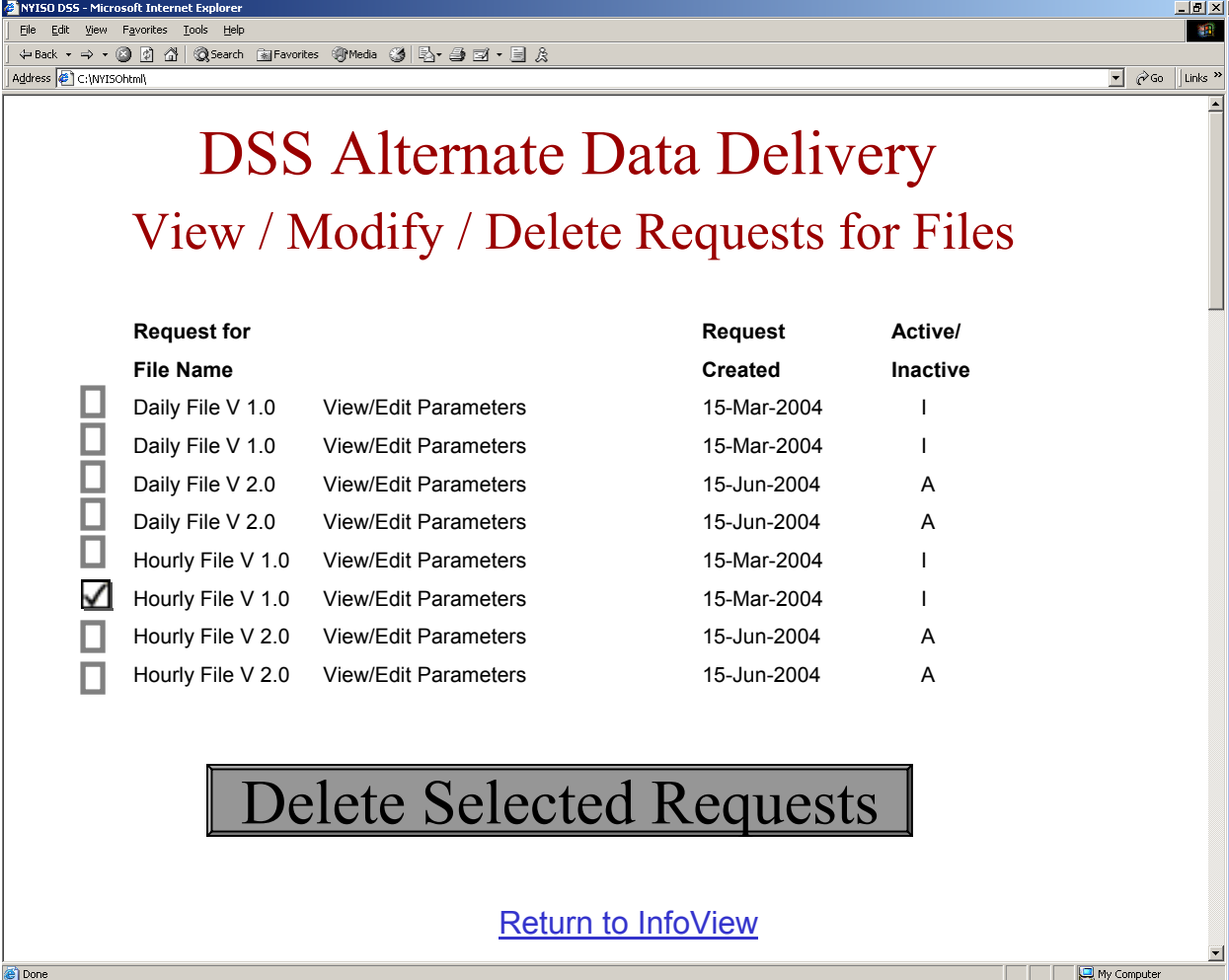
One time only Requests (Run Now):

- One Specific Day / Version: 15-Jan-2004 V 1
- All Billing Days Updated Between: 01-Feb-2004 and 07-Feb-2004

[Return to InfoView](#)

Done My Computer

ADD Functional Overview



DSS Alternate Data Delivery
View / Modify / Delete Requests for Files

<input type="checkbox"/>	Request for File Name	Request Created	Active/ Inactive
<input type="checkbox"/>	Daily File V 1.0 View/Edit Parameters	15-Mar-2004	I
<input type="checkbox"/>	Daily File V 1.0 View/Edit Parameters	15-Mar-2004	I
<input type="checkbox"/>	Daily File V 2.0 View/Edit Parameters	15-Jun-2004	A
<input type="checkbox"/>	Daily File V 2.0 View/Edit Parameters	15-Jun-2004	A
<input type="checkbox"/>	Hourly File V 1.0 View/Edit Parameters	15-Mar-2004	I
<input checked="" type="checkbox"/>	Hourly File V 1.0 View/Edit Parameters	15-Mar-2004	I
<input type="checkbox"/>	Hourly File V 2.0 View/Edit Parameters	15-Jun-2004	A
<input type="checkbox"/>	Hourly File V 2.0 View/Edit Parameters	15-Jun-2004	A

Delete Selected Requests

[Return to InfoView](#)

DSS – Did You Know?

➤ PS Generator Output Charts

- *A pair of charts created to support a Power Supplier's analysis of:*
 - ▶ A Generator's actual physical performance (actual output vs. basepoints)
 - ▶ A Generator's schedule profile (MWhs by DAM, HAM, balancing energy, transaction contracts, etc.)
- *Includes supporting data tables*
- *Great example of charting / graphing features in DSS*
- *Corporate Reports – Power Suppliers – Generator Output Charts*

Chart #1 – Generator Performance

DSS-R-B-PS-N-135-A

New York Independent System Operator Decision Support System

Generator Output Chart

Interval Day: Start: 09/01/2003 End: 09/03/2003

Invoice Version: Initial Settlement (10/08/2003) #1

Org/Gen: Organization 33361 GenBilling 17975 (17975)

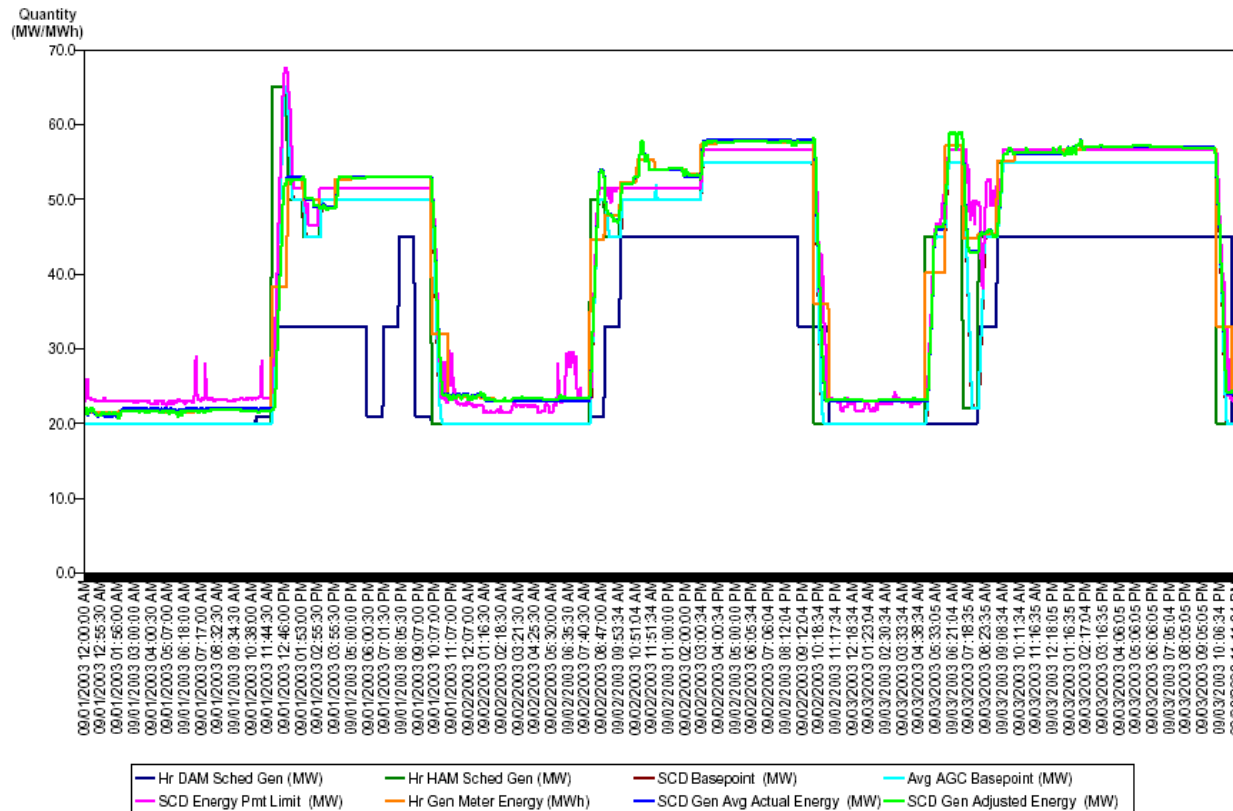


Chart #2 – Generator Schedules

DSS-R-B-PS-N-135-C

New York Independent System Operator Decision Support System Generator Output by Market

Interval Day: Start: 09/01/2003 End: 09/03/2003 Invoice Version: Initial Settlement (10/08/2003) #1

Org/Gen: Organization 33361 GenBilling 17975 (17975)

