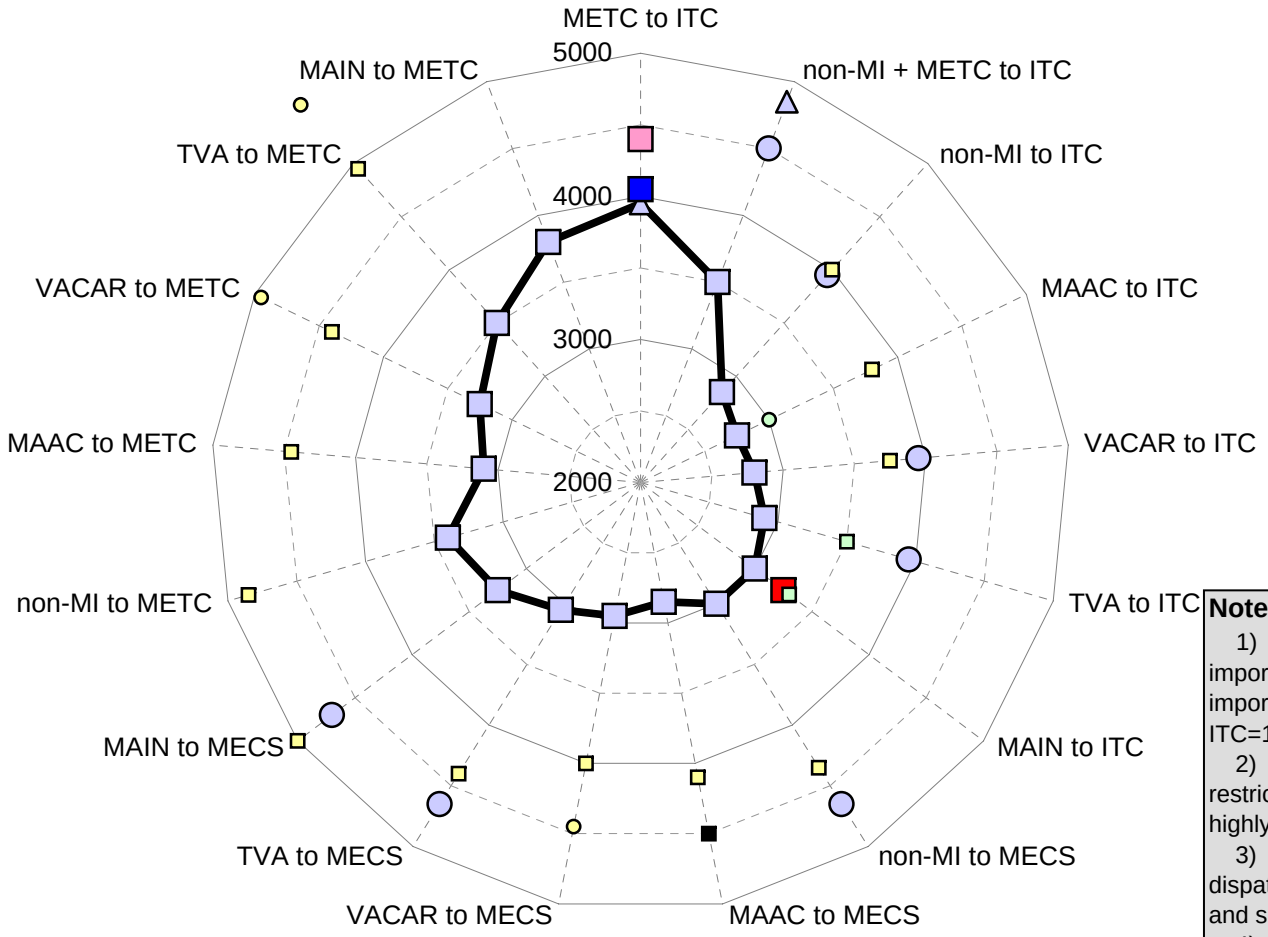
Chart 1

Currently Planned System[4]

2009 Summer -- Total Normalized[1] Import Capabilities for Various Incremental Transfer Scenarios



ITC Limit A	ITC Limit B
ITC Limit C	ITC Limit D
ITC Limit E	ITC Limit F
METC Limit A	METC Limit B
METC Limit C	METC Limit D
METC Limit E	METC Limit F
MISO Limit A	MISO Limit B
non-MISO Limit A	non-MISO Limit B
non-MISO Limit C	non-MISO Limit D (ops practice)
non-MISO Limit E	non-MISO Limit F
Other	Overall Limit

Notes:

1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=1860, METC=-510 and MECS=1350.

2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

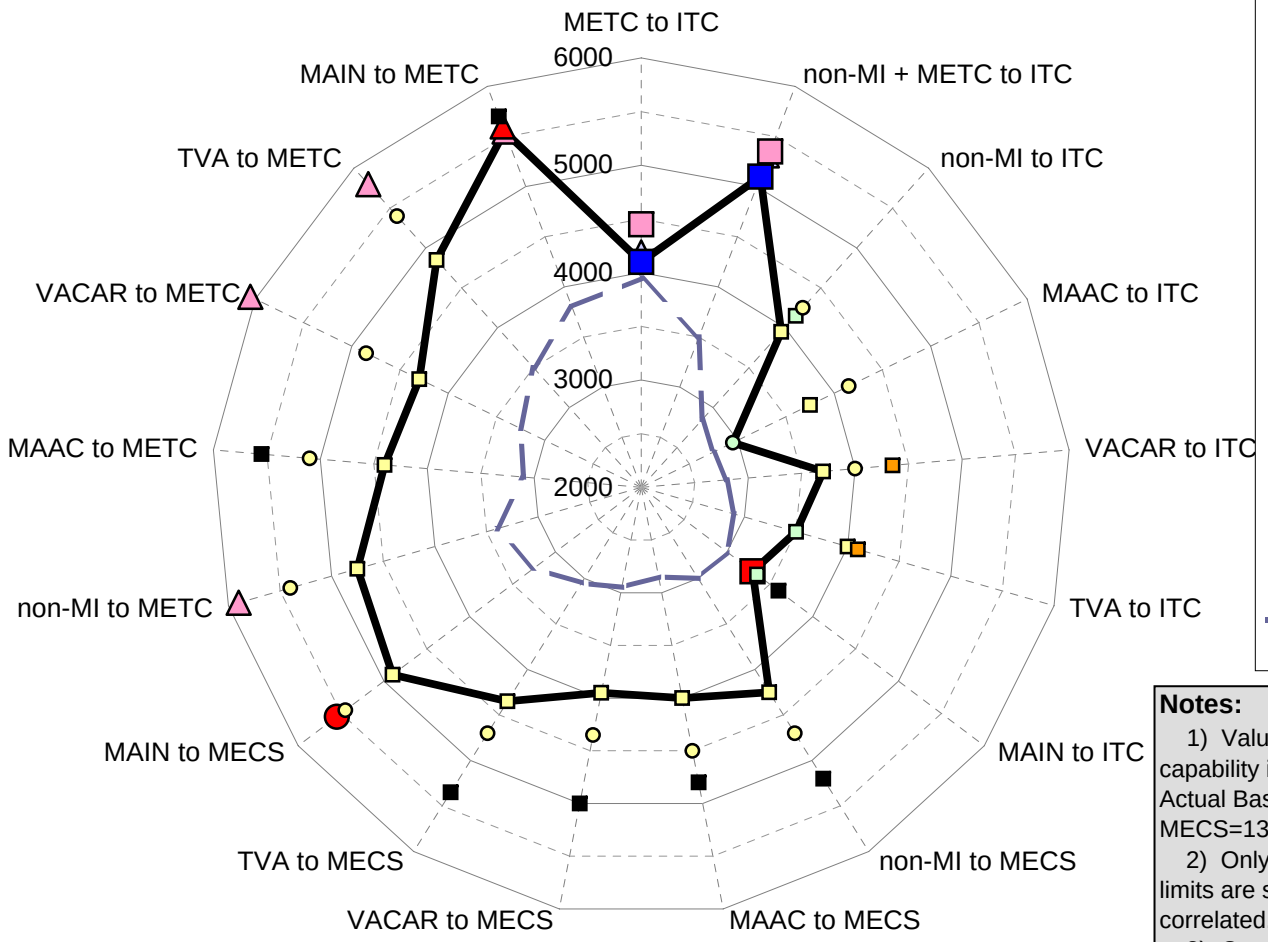
3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

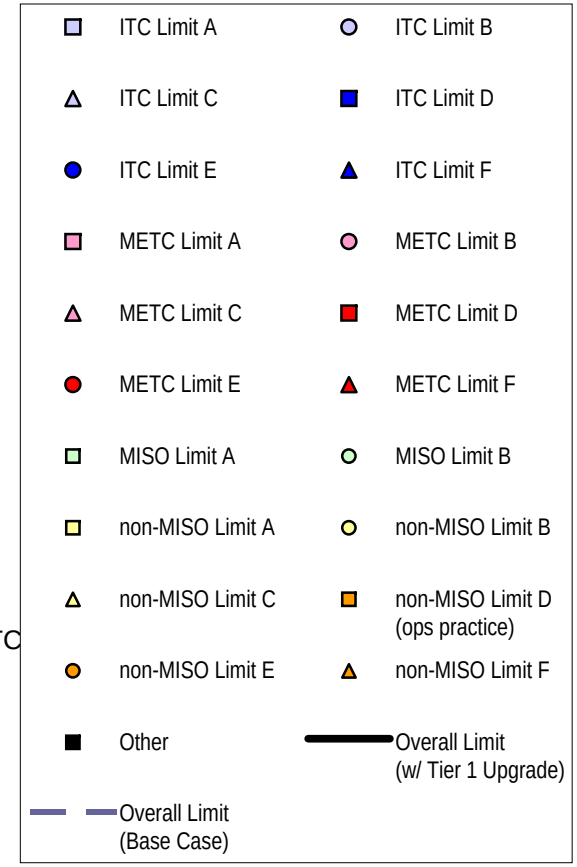
4) Base Case has 0 MWs flowing between Michigan and Ontario controlled by phase shifting transformers.

Chart 2

Tier 1 Upgrades for Transfers from South

2009 Summer -- Total Normalized[1] Import Capabilities for Various Incremental Transfer Scenarios





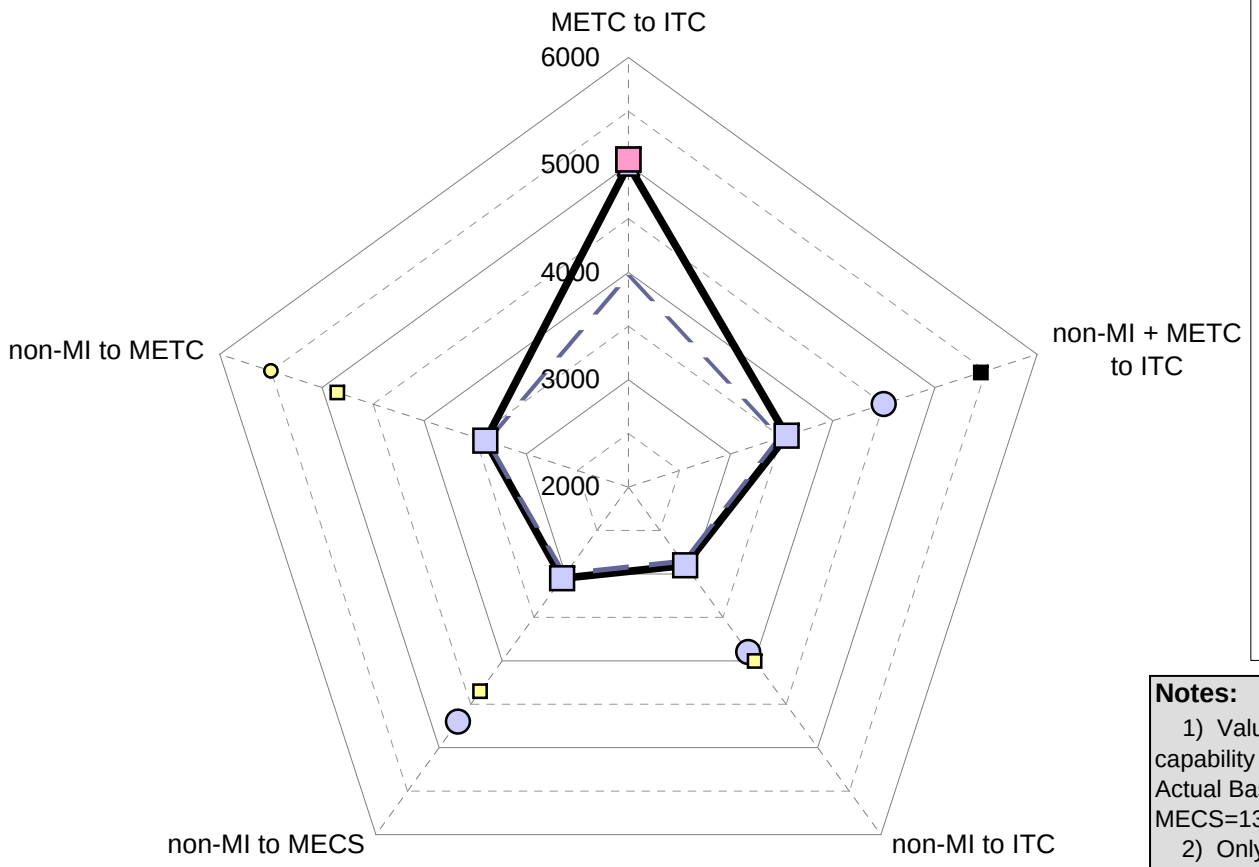
Notes:

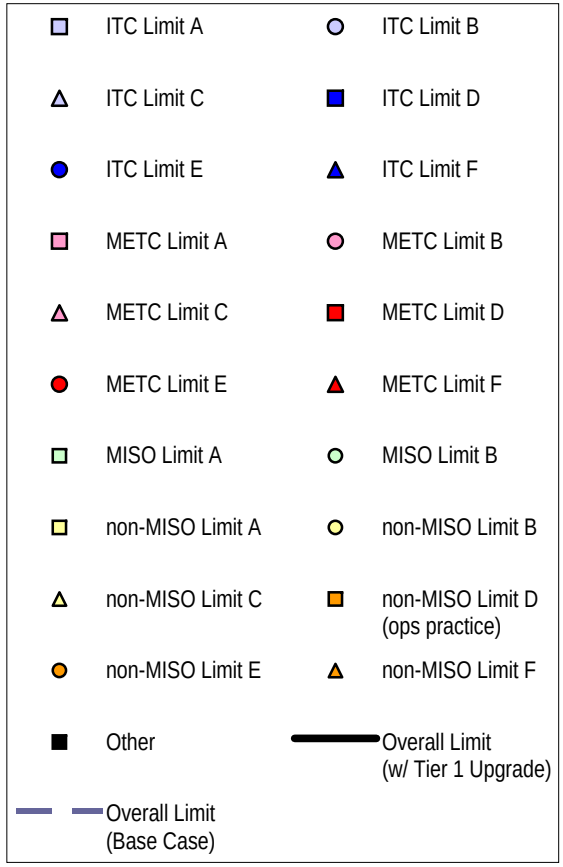
1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=1860, METC=-510 and MECS=1350.

2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

Chart 3
Tier 1 Upgrades for Cross State Transfers
2009 Summer -- Total Normalized[1] Import Capabilities
for Various Incremental Transfer Scenarios





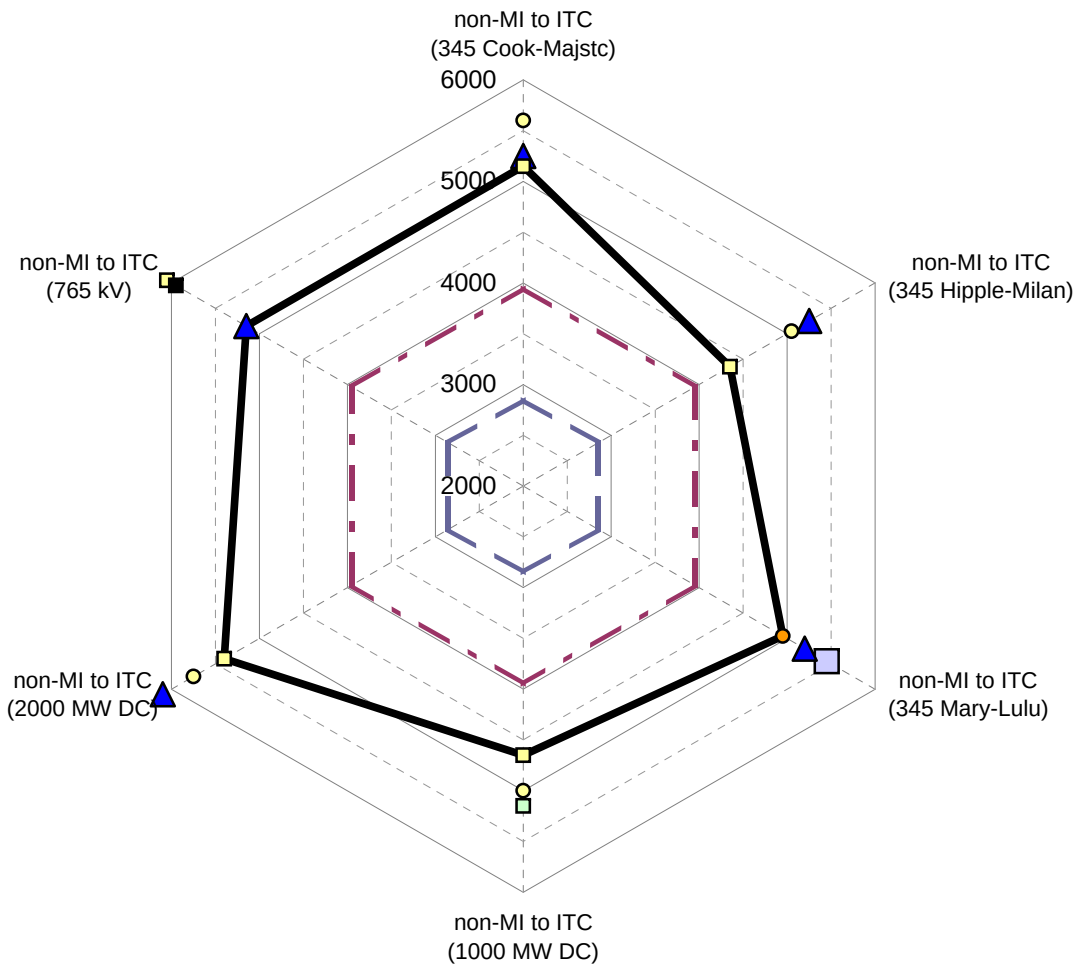
Notes:

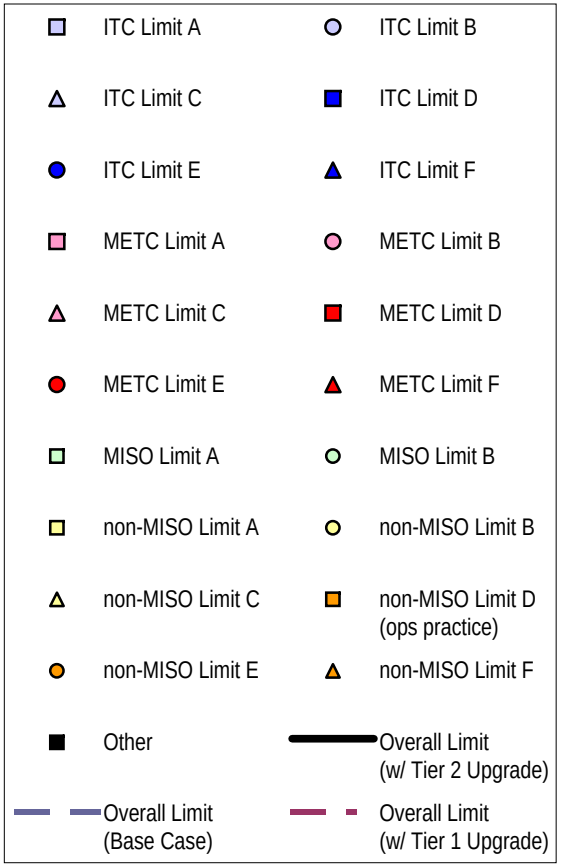
1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=1860, METC=-510 and MECS=1350.

2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

Chart 4
Tier 1 + Tier 2 Upgrades for Transfers from South
2009 Summer -- Total Normalized[1] Import Capabilities
for non-MI to ITC Incremental Transfer Scenarios





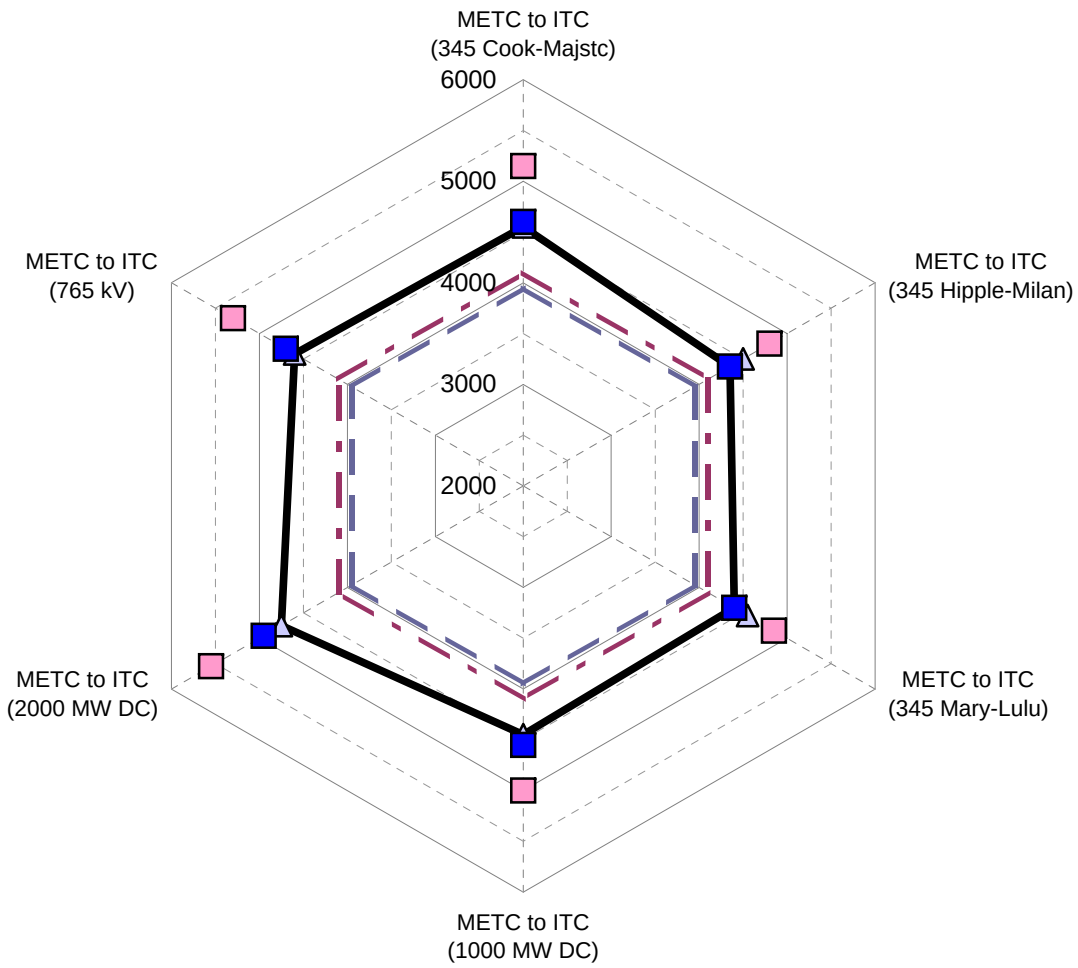
Notes:

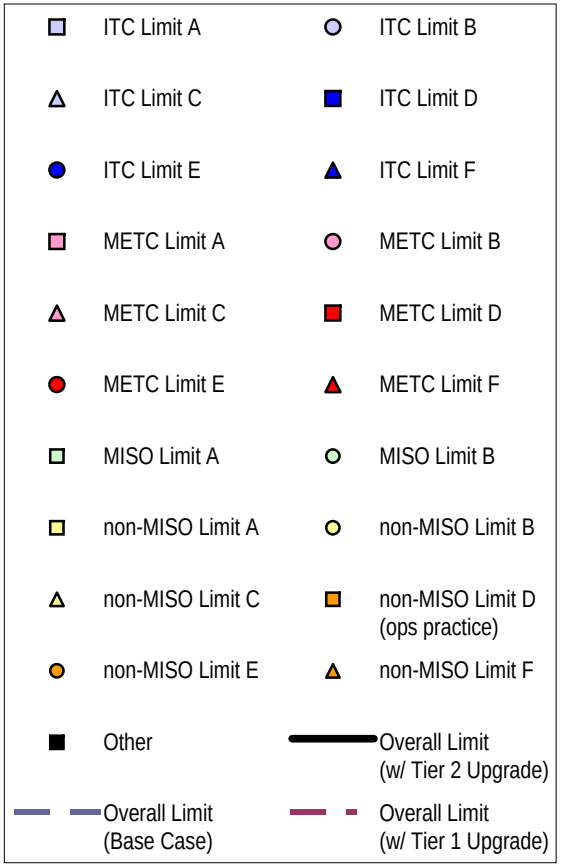
1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=1860, METC=-510 and MECS=1350.

2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

Chart 5
Tier 1 + Tier 2 Upgrades for Transfers from South
2009 Summer -- Total Normalized[1] Import Capabilities
for METC-ITC Incremental Transfer Scenarios





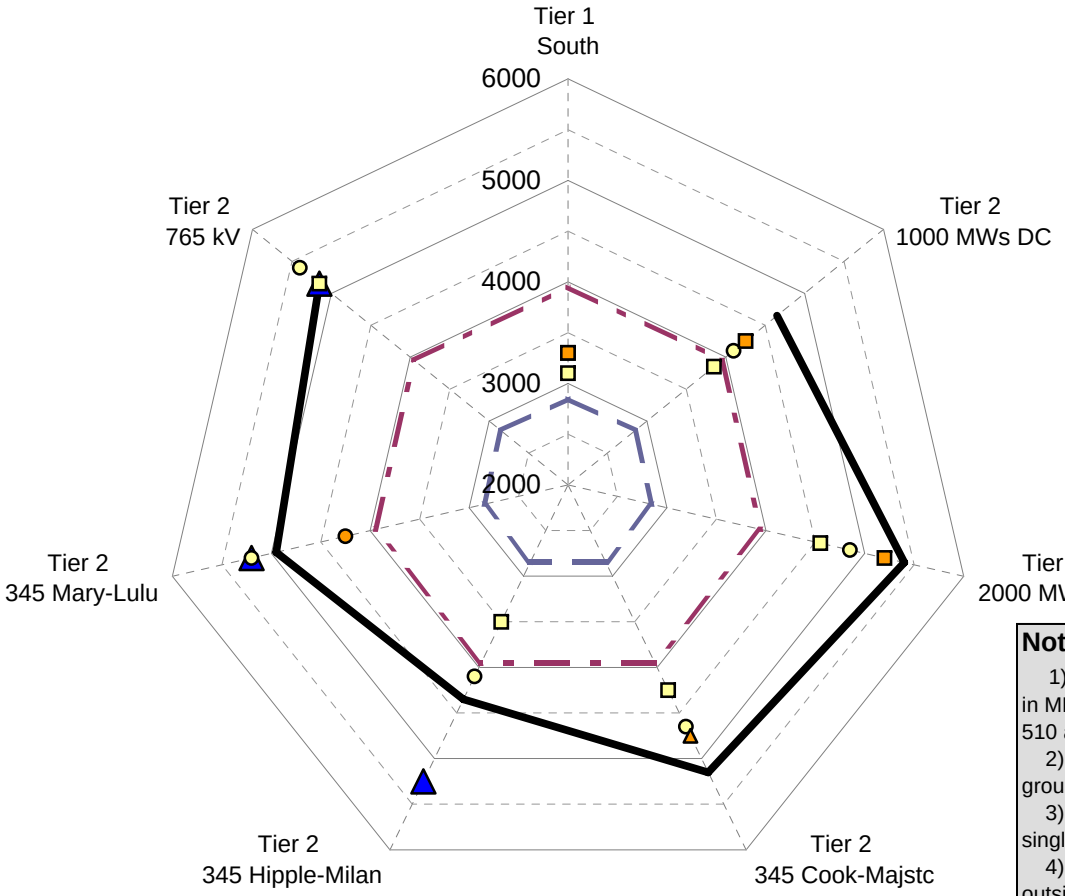
Notes:

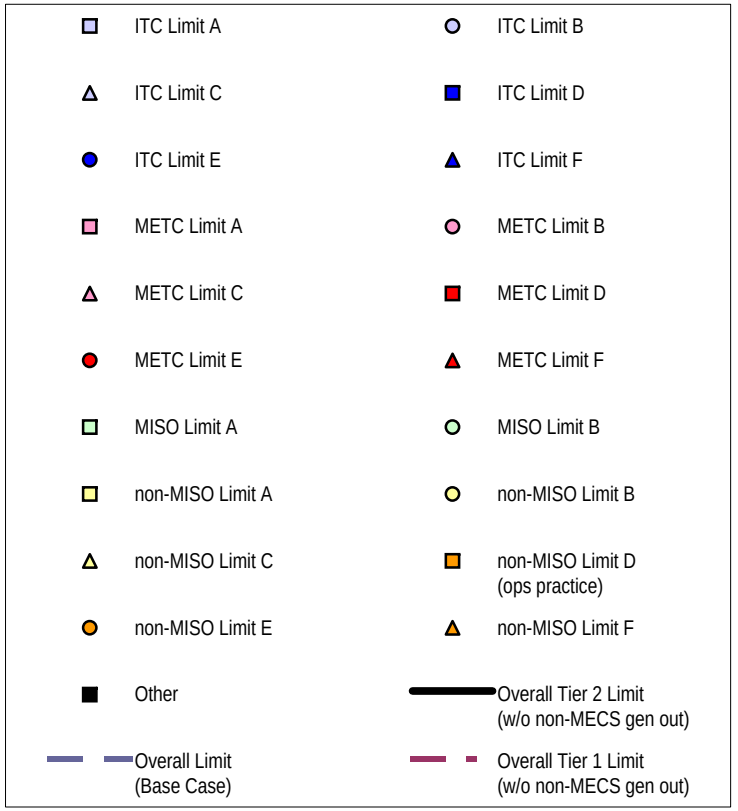
1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=1860, METC=-510 and MECS=1350.

2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

Chart 6
Sensitivity of Limits to non-MECS Generator Outages
2009 Summer -- Total Normalized[1] Import Capabilities
for non-MI to ITC Incremental Transfer Scenarios





Notes:

1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=1860, METC=-510 and MECS=1350.

2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

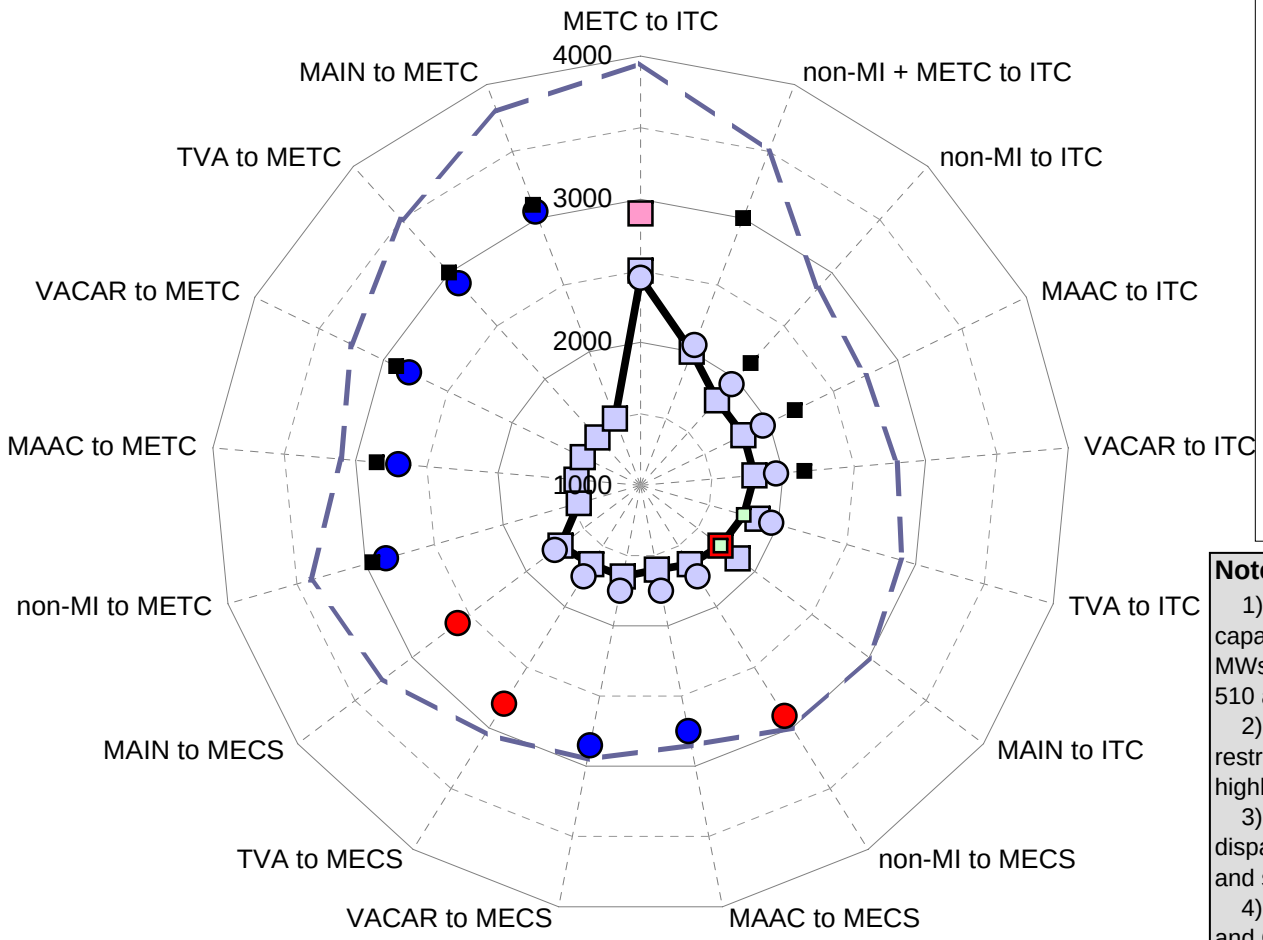
3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

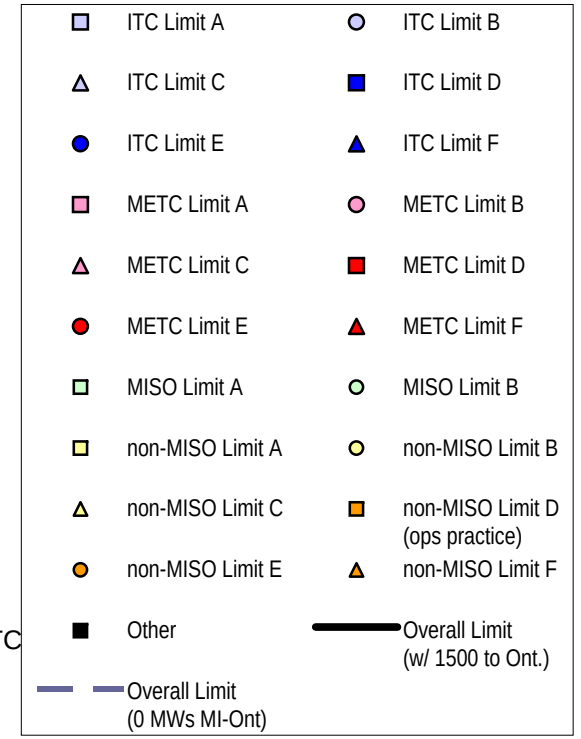
4) Overall limit in base case not impacted by a single generator dispatched off outside of MECS.

Chart 7

Impact of 1500 MWs Flow from Michigan to Ontario[4]

2009 Summer -- Total Normalized[1] Import Capabilities for Various Incremental Transfer Scenarios





Notes:

1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=1860, METC=-510 and MECS=1350.

2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

4) Base Case has 0 MWs flowing between Michigan and Ontario controlled by phase shifting transformers.

Chart 8

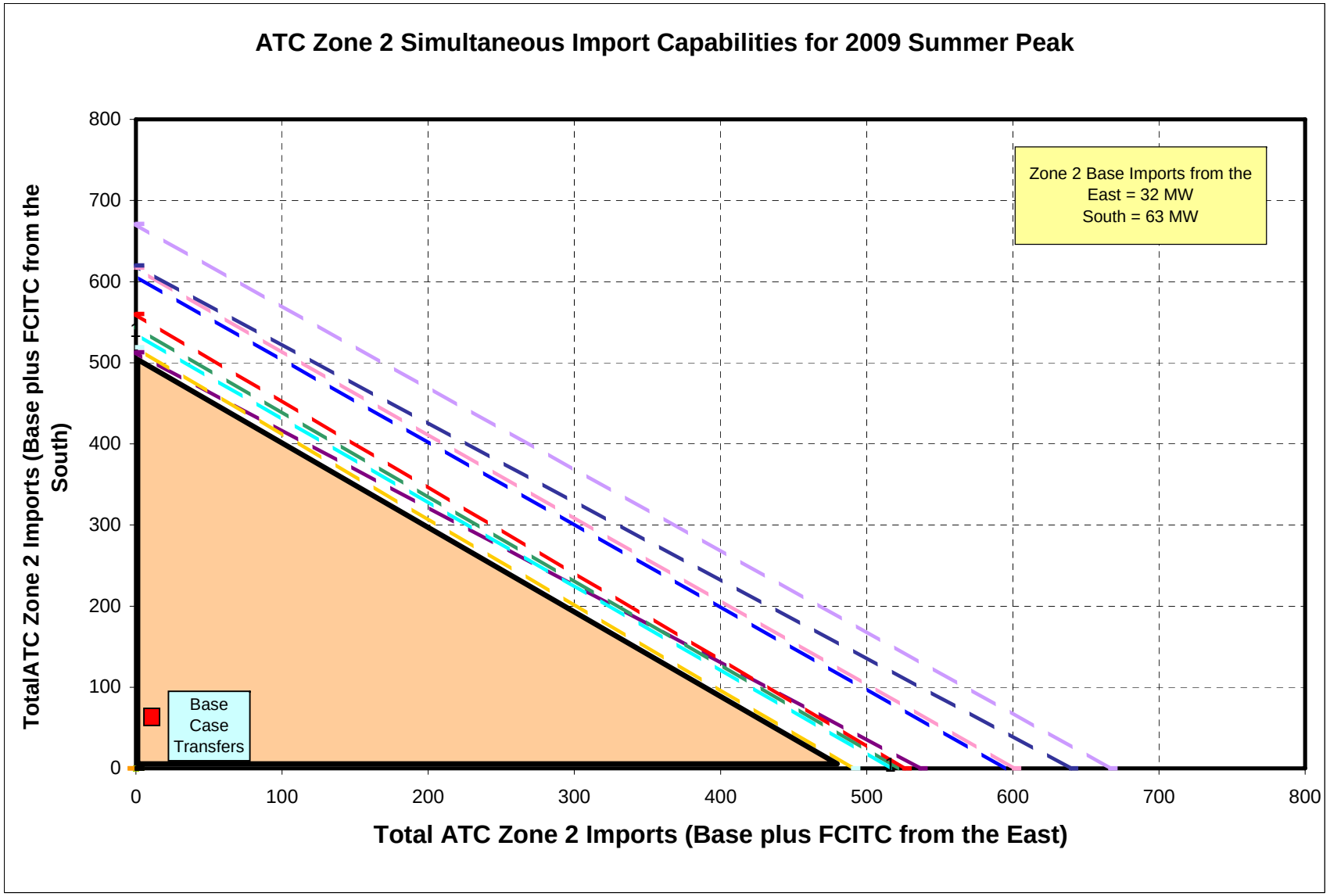

ATC Zone 2 Simultaneous Import Capabilities for 2009 Summer Peak
TotalATC Zone 2 Imports (Base plus FCITC from the South)
Total ATC Zone 2 Imports (Base plus FCITC from the East)
0
100
200
300
400
500
600
700
800
Zone 2 Base Imports from the East = 32 MW
South = 63 MW
Base Case Transfers
1 Lower Michigan Limit #1
2 ATC Limit #1
3 Lower Michigan Limit #2
4 Lower Michigan Limit #3
5 Lower Michigan Limit #4
6 ATC Limit #2
7 ATC Limit #3
8 ATC Limit #4
9 ATC Limit #5

Chart 9

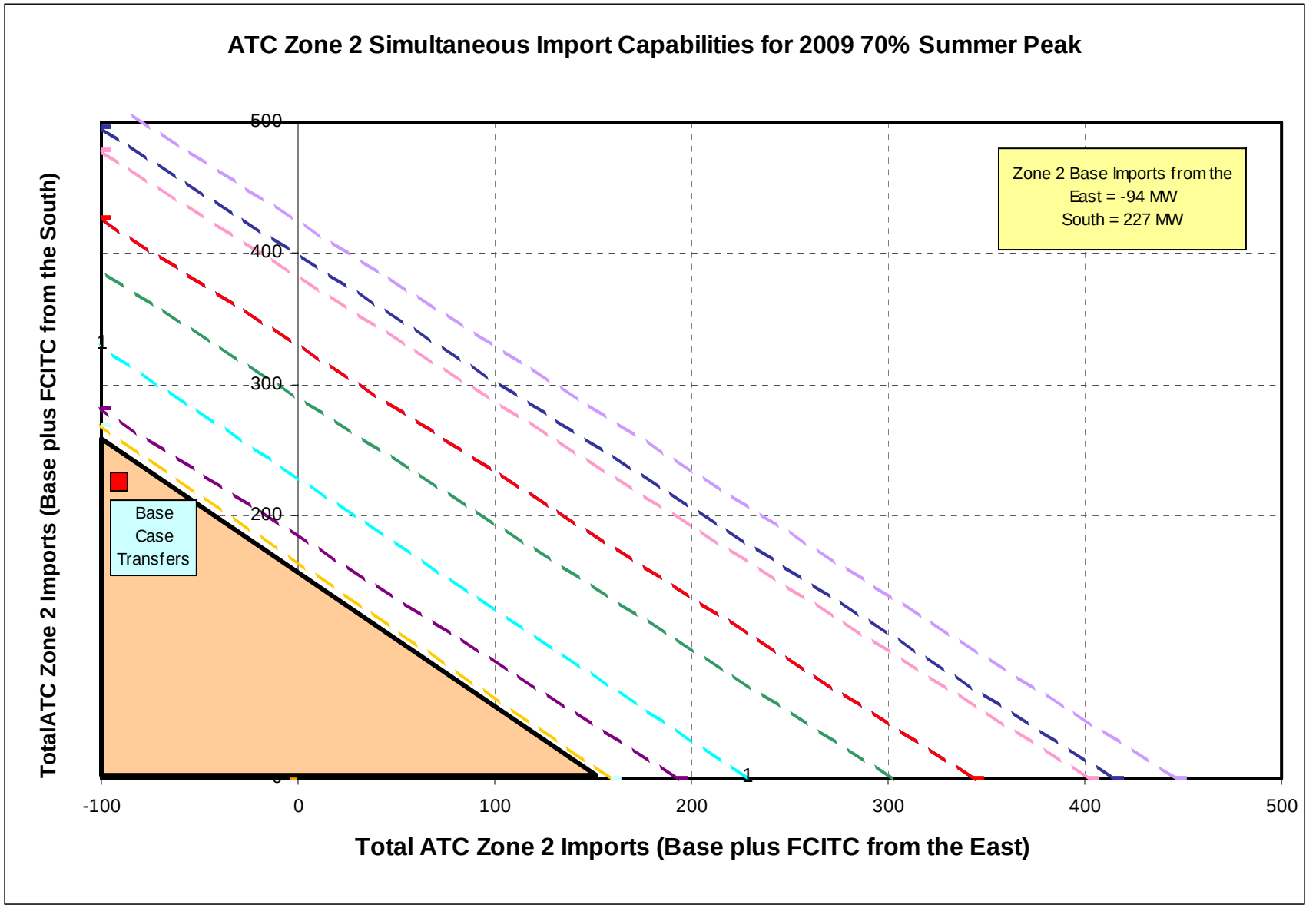
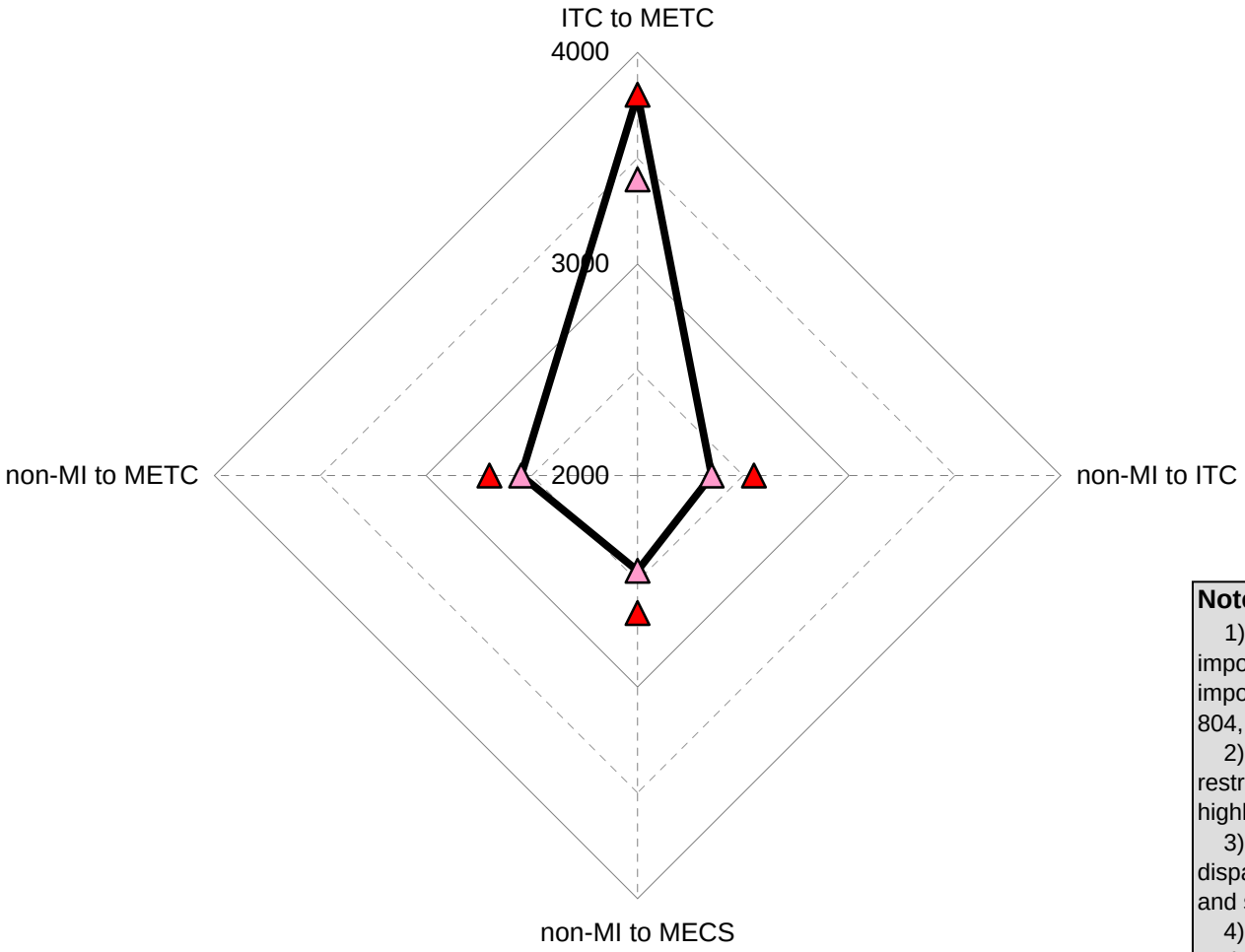

ATC Zone 2 Simultaneous Import Capabilities for 2009 70% Summer Peak
TotalATC Zone 2 Imports (Base plus FCITC from the South)
Total ATC Zone 2 Imports (Base plus FCITC from the East)
Zone 2 Base Imports from the East = -94 MW
South = 227 MW
Base Case Transfers
500
400
300
200
-100
0
100
200
300
400
500
1 ATC Limit #1
2 ATC Limit #2
3 ATC Limit #3
4 ATC Limit #4
5 ATC Limit #5
6 ATC Limit #6
7 ATC Limit #7
8 ATC Limit #8

Chart 10

70% Peak Load with Ludington Pumping[4]

2009 Summer -- Total Normalized[1] Import Capabilities for Various Incremental Transfer Scenarios



ITC Limit A	ITC Limit B
ITC Limit C	ITC Limit D
ITC Limit E	ITC Limit F
METC Limit A	METC Limit B
METC Limit C	METC Limit D
METC Limit E	METC Limit F
MISO Limit A	MISO Limit B
non-MISO Limit A	non-MISO Limit B
non-MISO Limit C	non-MISO Limit D (ops practice)
non-MISO Limit E	non-MISO Limit F
Other	Overall Limit

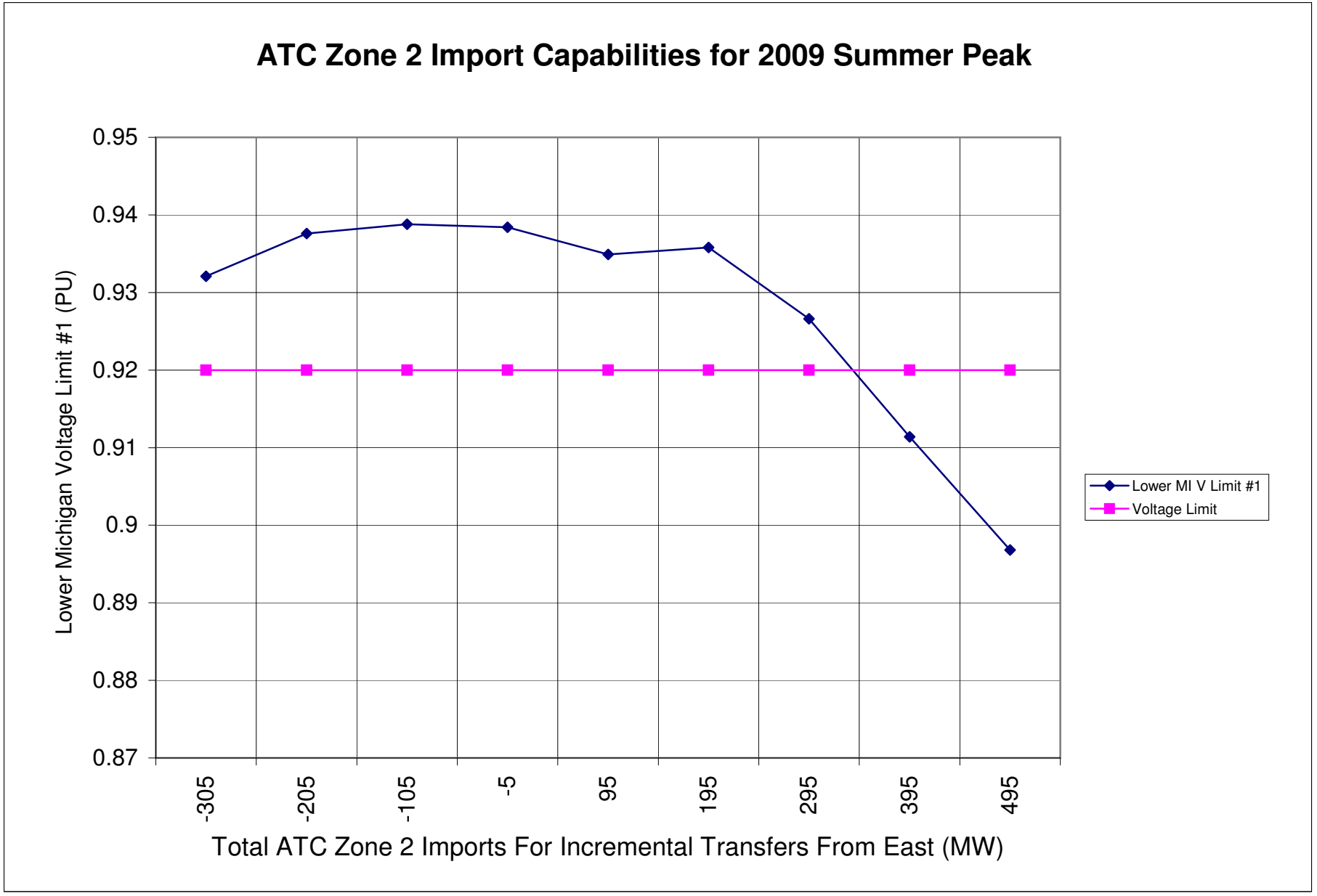
Notes:

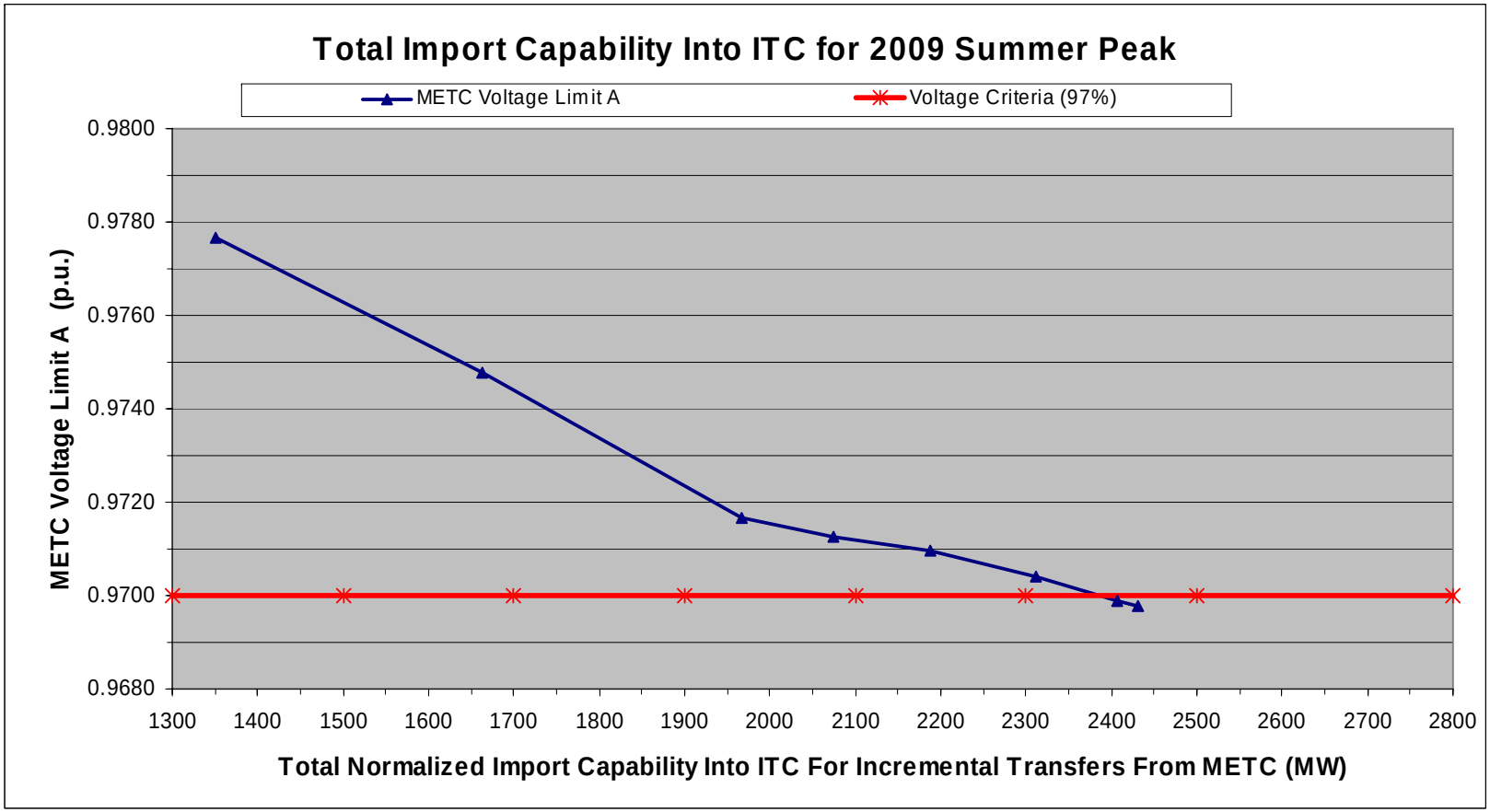
1) Values Shown are normalized to represent import capability if the other entity in MECS were importing 0 MWs.. Actual Base Case Imports ITC=-804, METC=2951 and MECS=2147.

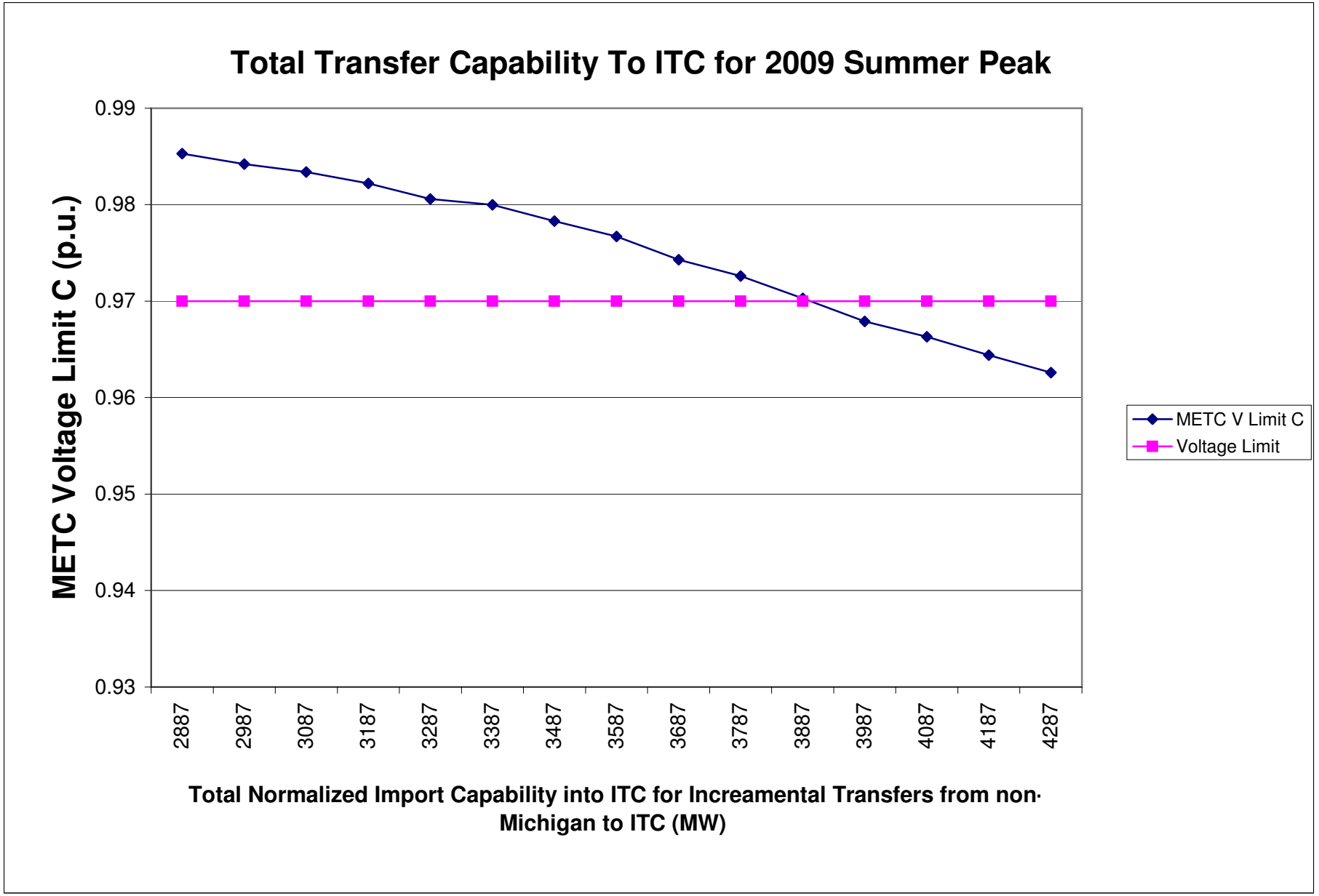
2) Only first few limits are shown. Only most restrictive limits are shown for groups of limits that are highly correlated.

3) Contingencies considered included units dispatched off, units tripping off, single transmission and single transmission with units dispatched off.

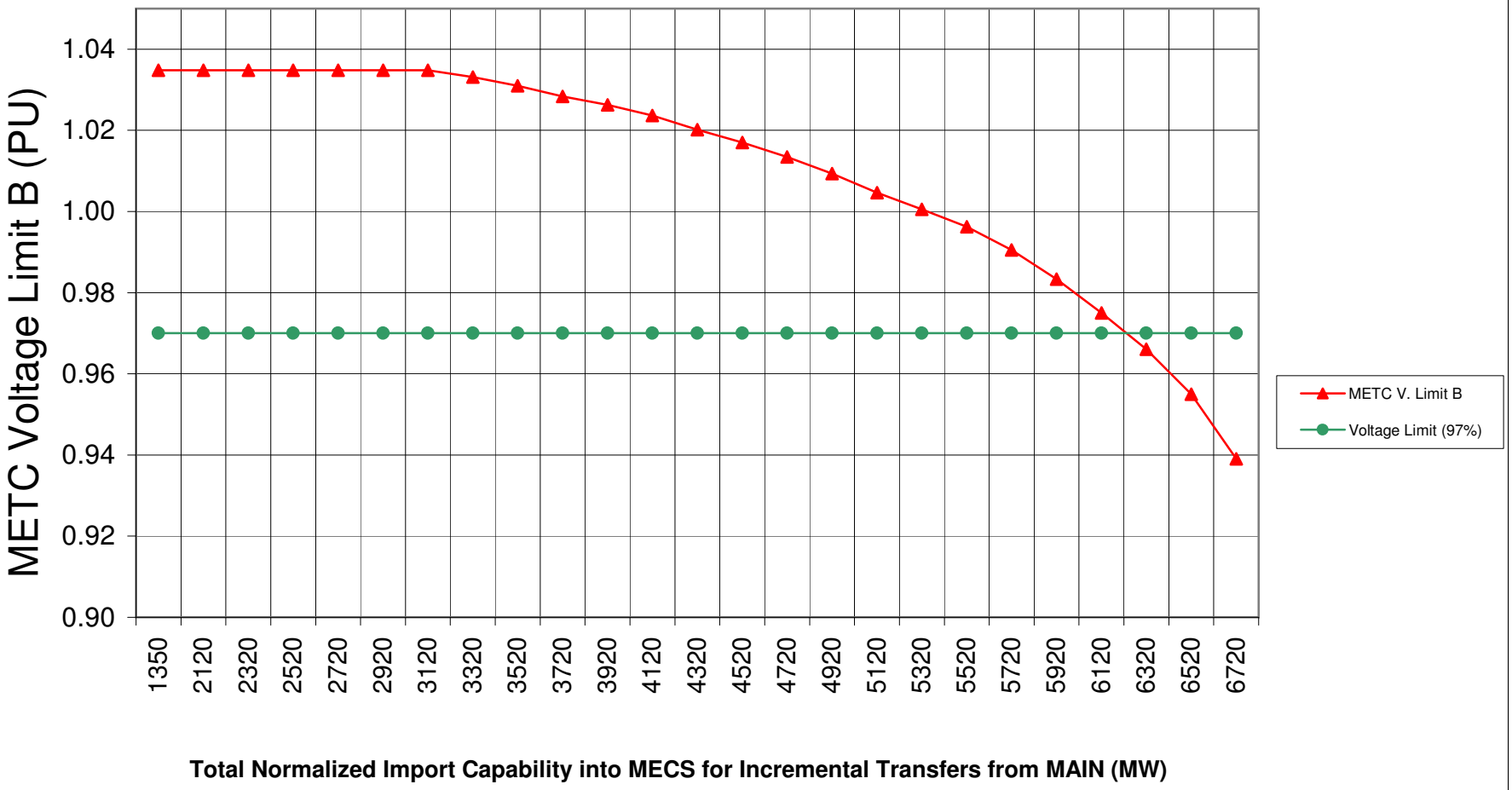
4) Base Case has 0 MWs flowing between Michigan and Ontario controlled by phase shifting transformers.


ATC Zone 2 Import Capabilities for 2009 Summer Peak
Lower Michigan Voltage Limit #1 (PU)
0.95
0.94
0.93
0.92
0.91
0.9
0.89
0.88
0.87
-305
-205
-105
-5
95
195
295
395
495
Total ATC Zone 2 Imports For Incremental Transfers From East (MW)
Lower MI V Limit #1
Voltage Limit


Total Import Capability Into ITC for 2009 Summer Peak
METC Voltage Limit A
Voltage Criteria (97%)
METC Voltage Limit A (p.u.)
0.9800
0.9780
0.9760
0.9740
0.9720
0.9700
0.9680
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
Total Normalized Import Capability Into ITC For Incremental Transfers From METC (MW)


Total Transfer Capability To ITC for 2009 Summer Peak
METC Voltage Limit C (p.u.)
0.99
0.98
0.97
0.96
0.95
0.94
0.93
2887
2987
3087
3187
3287
3387
3487
3587
3687
3787
3887
3987
4087
4187
4287
METC V Limit C
Voltage Limit
Total Normalized Import Capability into ITC for Increamental Transfers from non-Michigan to ITC (MW)

Total Import Capability To MECS for 2009 Summer Peak



Total Import Capability To MECS for 2009 Summer 70% Peak

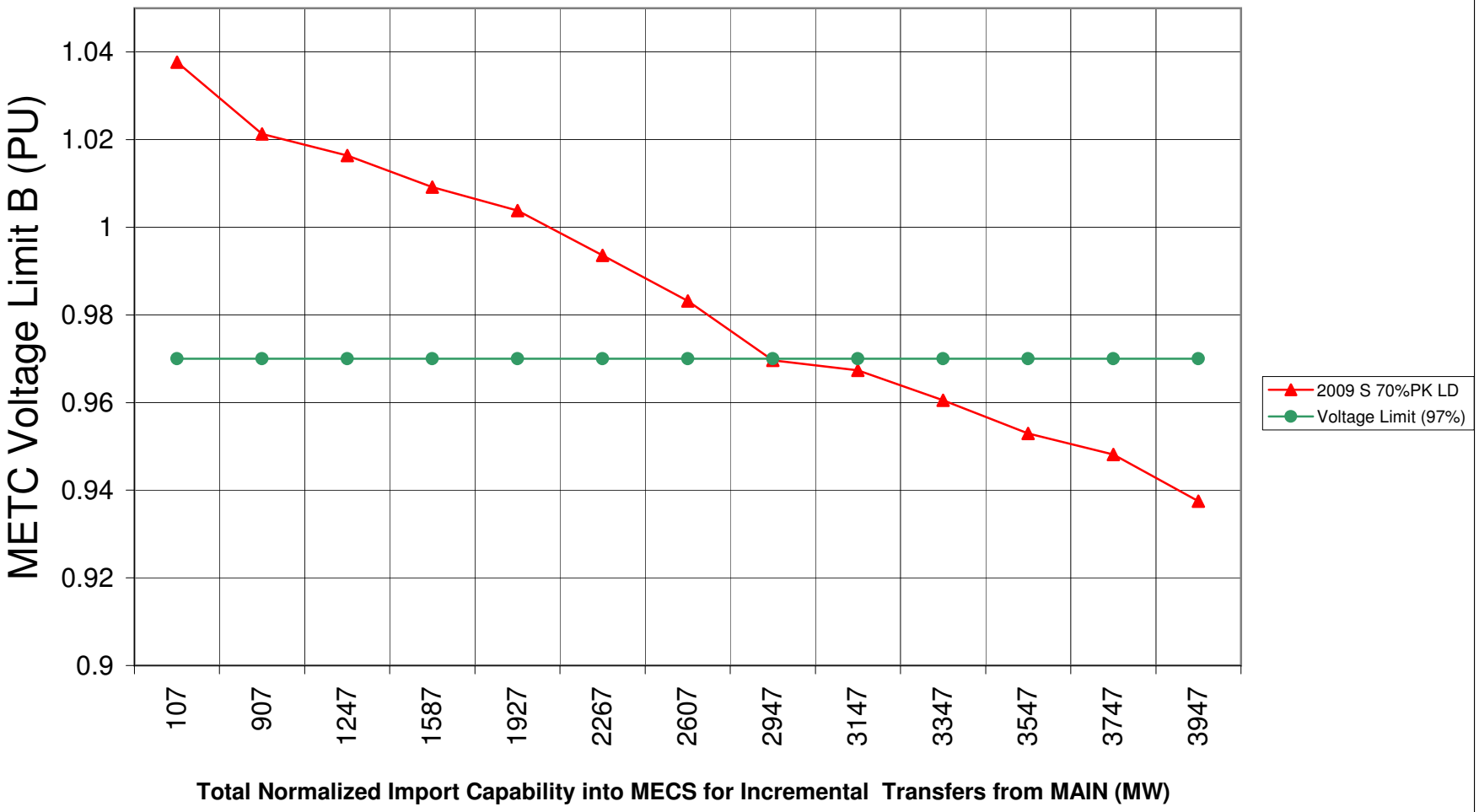
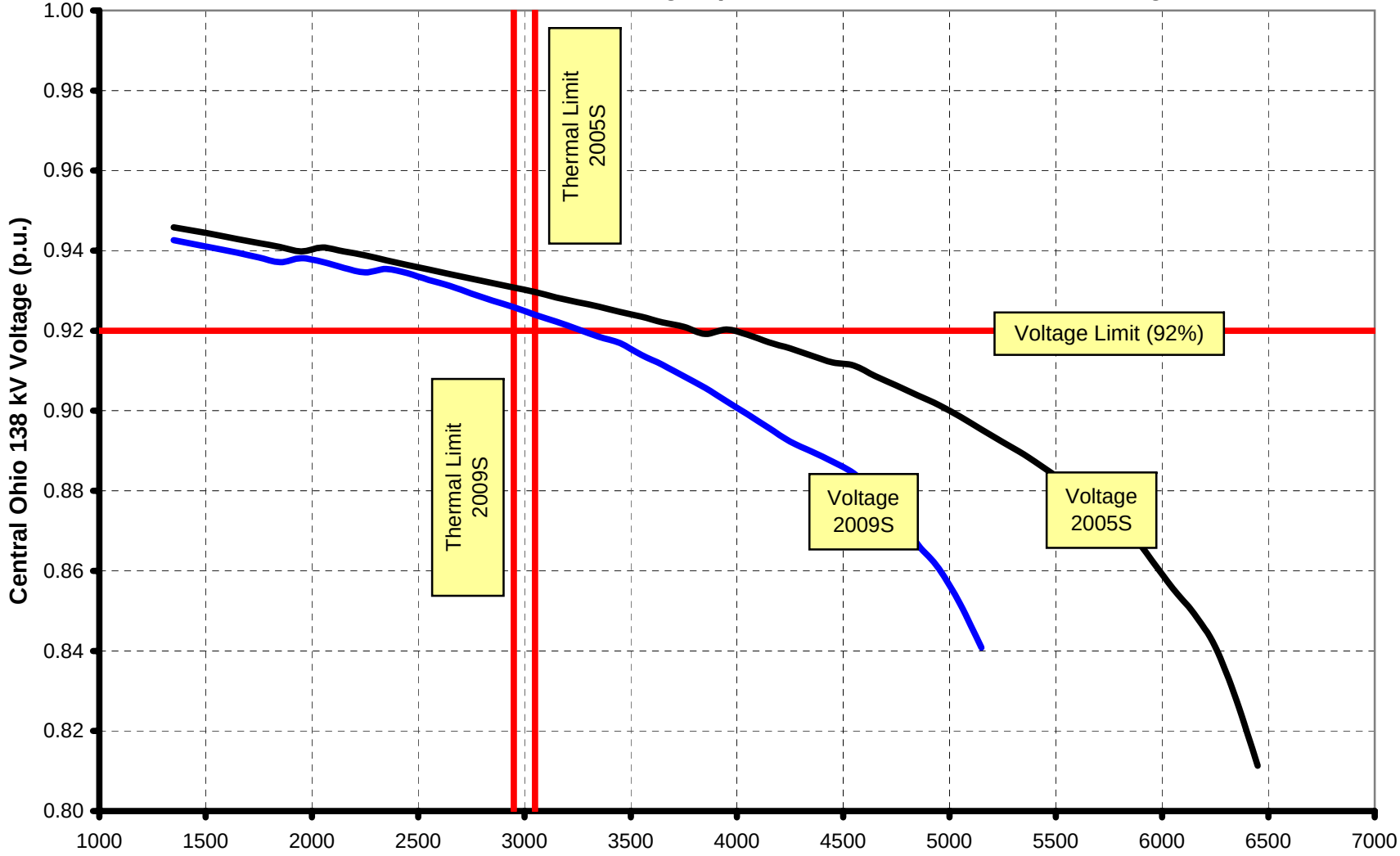


Figure ???

Capacity Needs Forum 2009 Summer Assessment of Transmission System Performance

Central Ohio EHV Transformer Outaged plus Central Ohio Generation Outaged



08/04/05