

# Proposed 2016 IRM Topology

**Bill Lamanna**

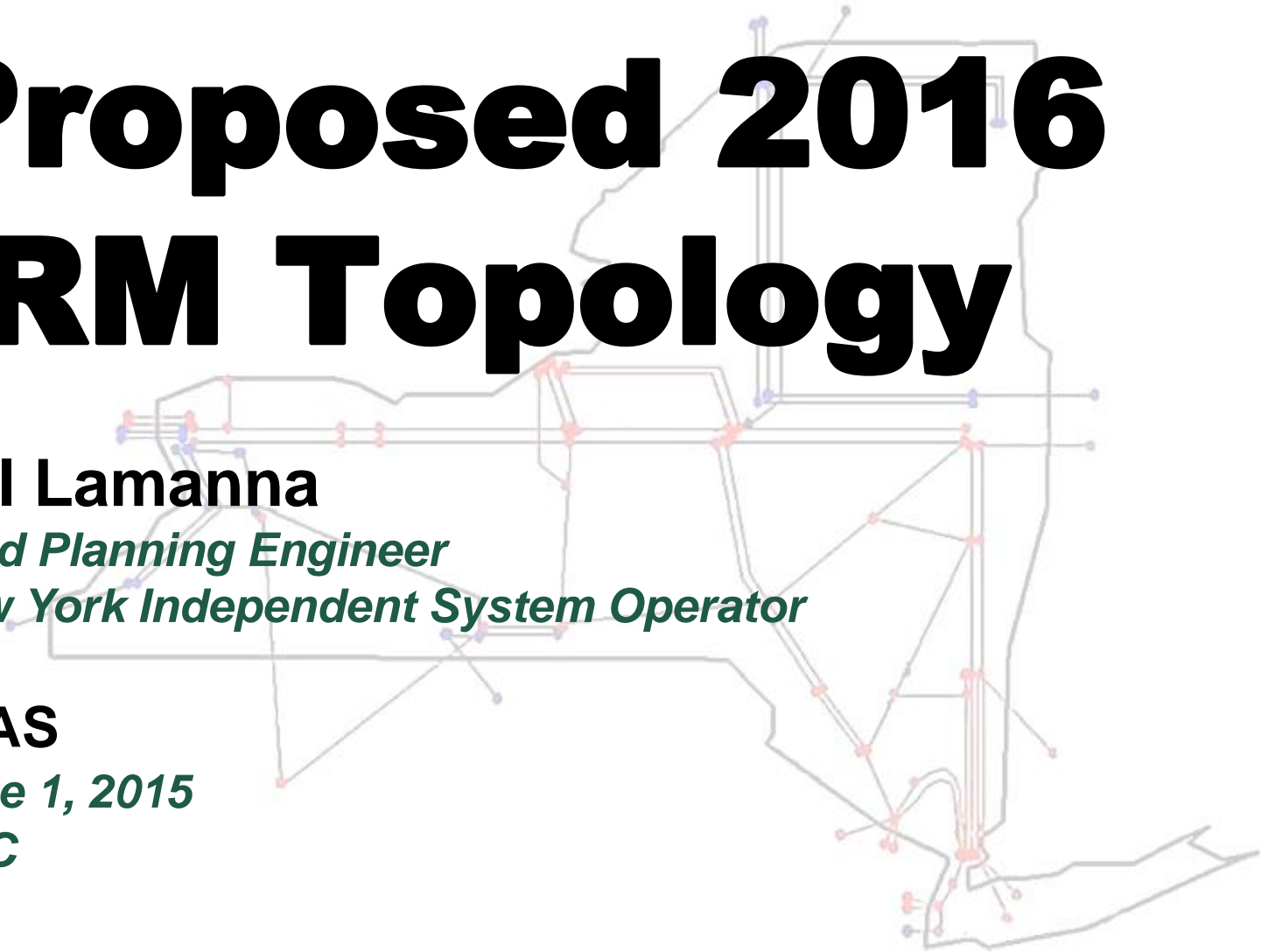
*Lead Planning Engineer*

*New York Independent System Operator*

**TPAS**

*June 1, 2015*

*KCC*



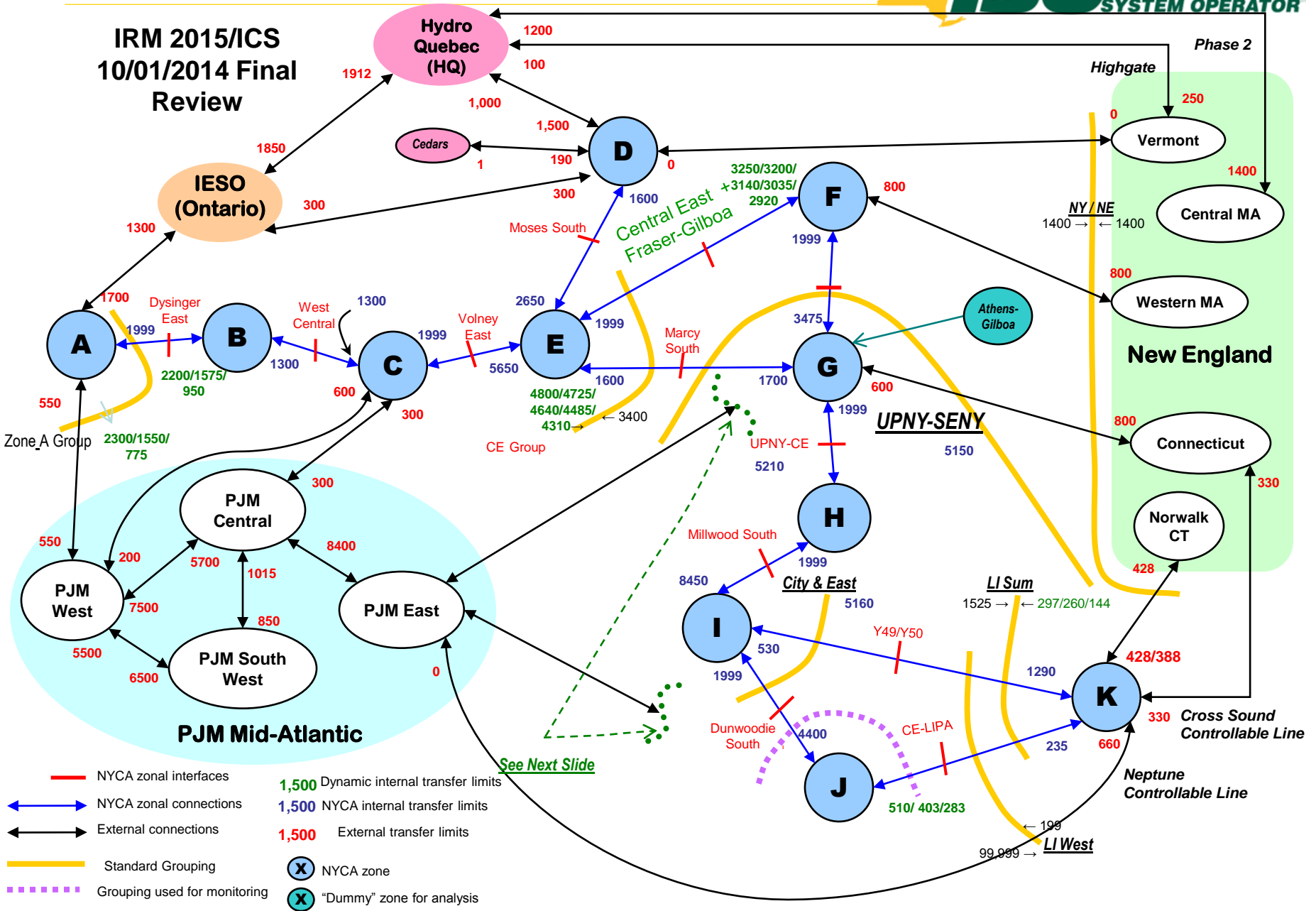
# MARS Topology Development

- ◆ Begin with 2015 IRM study topology, update for TOTS
- ◆ Reviewed most recently completed NYISO studies for consistency
  - 2014 Comprehensive Reliability Plan
  - 2015 Summer Operating Study
  - 2014 Area Transmission Review
- ◆ Reviewed most recently completed neighboring system studies for consistency
- ◆ Presented today for TPAS review

# Transmission System Representation for Year 2015 - Summer Emergency Ratings in MW

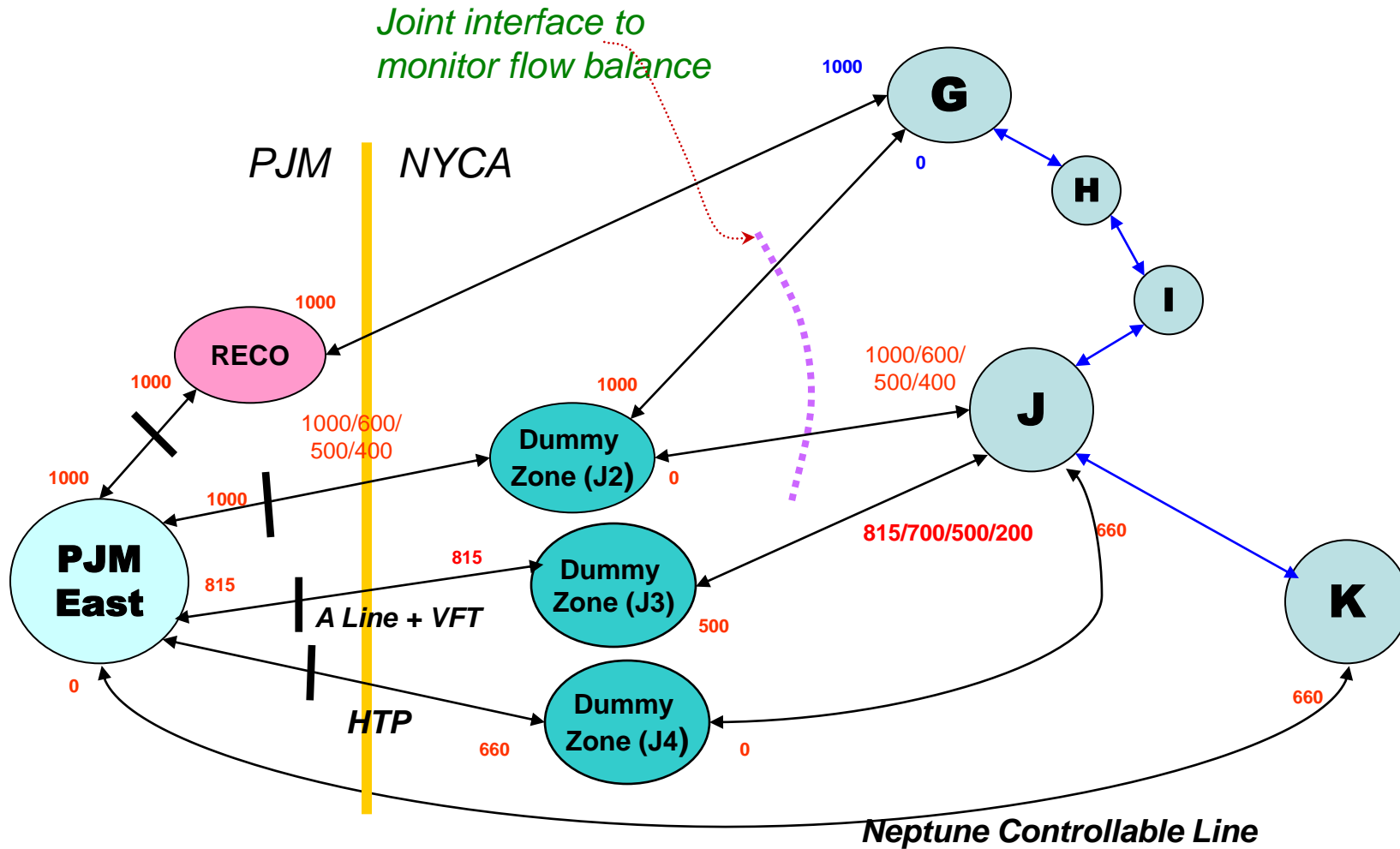


**IRM 2015/ICS  
10/01/2014 Final  
Review**



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# PJM-SENY MARS Model

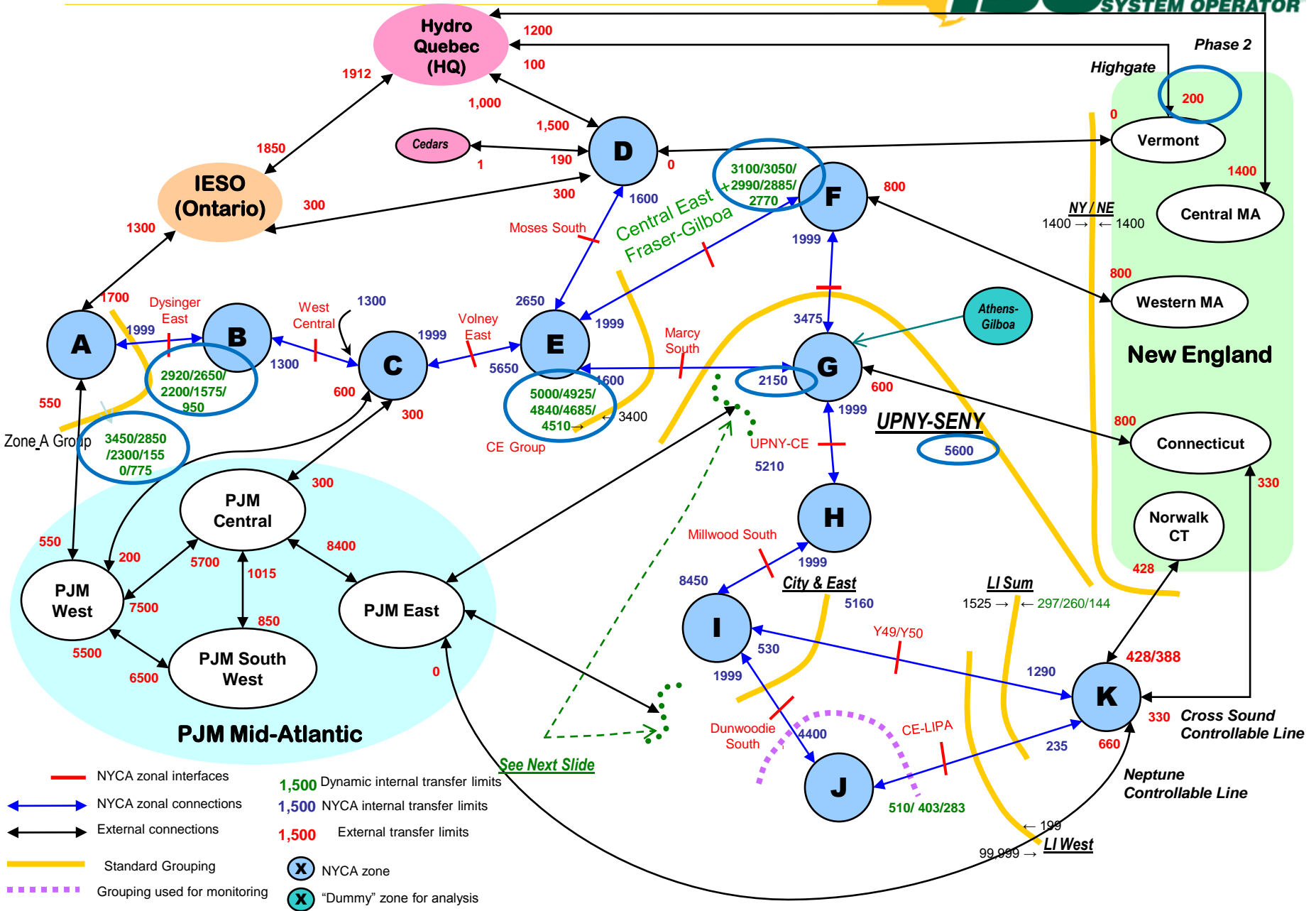


$$(PJM\ East\ to\ RECO) + (PJM\ East\ to\ J2) + (PJM\ East\ to\ J3) + (PJM\ East\ to\ J4) = 3075$$

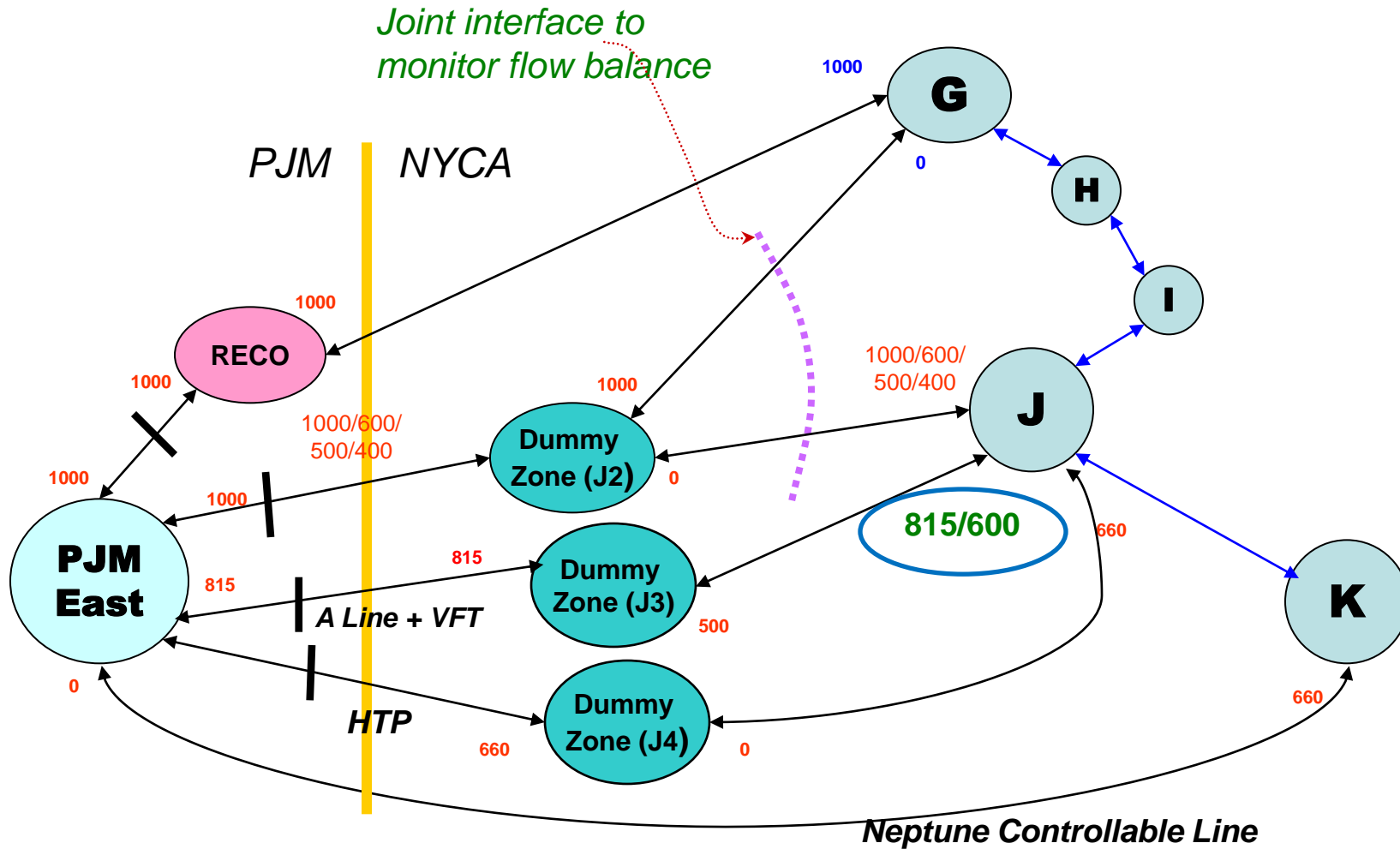
# Updates for 2016 IRM

- ◆ **Begin with 2015 IRM topology and incorporate TOTS updates derived in the 2014 RNA/CRP**
  - *Central East Group*
  - *Marcy South*
  - *Central East + Fraser – Gilboa*
  - *UPNY-SENY*
  - *J3 – J (Staten Island Unbottling)*
  
- ◆ **Add two additional levels to Dysinger East / Zone A Group, For Dunkirk 3 and 4 in-service for 2016**

# Transmission System Representation for Year 2016 - Summer Emergency Ratings (MW)



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$(PJM\ East\ to\ RECO) + (PJM\ East\ to\ J2) + (PJM\ East\ to\ J3) + (PJM\ East\ to\ J4) = 3075\ MW$

# J3 – J Dynamic Limit Table

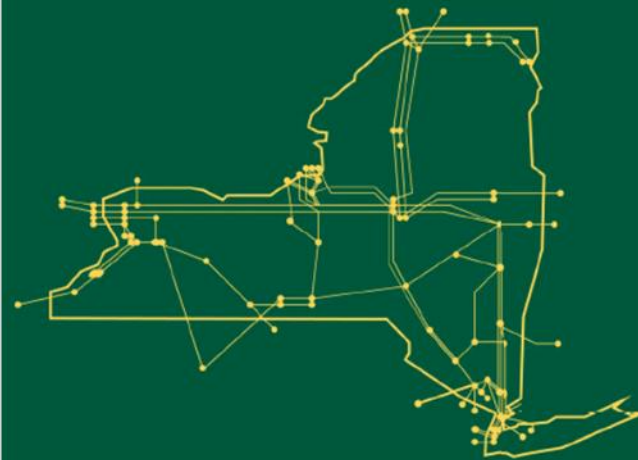
Year	Interface	Staten Island Units*			
		All available	AK 3 on, and any one of AK 2, Linden Cogen 1 or Linden Cogen 2 out	AK3 out	Any 2 (or more) out
2015	Dummy Zone J3 to J	200	500	700	815

Year	Interface	Staten Island Units*	
		All available	Any out
2016	Dummy Zone J3 to J	600	815

\* Arthur Kill 2, Arthur Kill 3, Linden Cogen (Modeled as 2 units in MARS)



The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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