

I. EQUIPMENT REQUIREMENTS

Data for all variable reactors designated as part of the Bulk Electric System¹ (BES) or connecting to the New England Transmission System² at a voltage of 69 kV or greater shall be provided by the Transmission Owners and Market Participants who own the equipment.³

Data for variable reactors connected at voltages that are less than 69 kV may be required when ISO determines that the data is necessary for reliable operation of the New England Transmission System. When required by ISO, the TO or MP shall submit the data within thirty (30) calendar days of ISO's notification.

A copy of the manufacturer's nameplate, either by document (.pdf format) or digital photograph (.tif or .jpg formats), shall be included as a file attachment to NX-9G forms for new or replaced equipment and to new NX-9G forms for variable reactor equipment previously reported using the NX-9B form.

A copy of the manufacturer's test

To assist in completing the NX-9G form, sample manufacturer's nameplate data and a completed NX-9G form utilizing that data are attached (Example 1).

All tap position item responses shall indicate tap positions using numbers (1, 2, 3, 4, etc.) as opposed to letters (a, b, c, d, etc.).

III. RATING DATA INSTRUCTIONS

Facility rating data shall be provided in the following format: (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) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

EXAMPLE 1, NX-9G VARIABLE REACTOR

Reference 1410100002 ParticipantID abc variable reactor
 Participant Test Company ISOID abc
 Form State Approved 01/10/2014

EMS STATION1 Terminal Station1345kV Bus # 123456
 Equipment Variable Reactor Control Type Auto
 Nominal System Voltage (kV) 345
 Nominal Capability (MVAR) Fixed 50 Variable 50 Maximum 100
 Default Summer 100 F

	MVA	Limiting Device / Description	Location
Normal	100	Reactor-Reactor	Substation
LTE	100	Reactor-Reactor	Substation
STE	100	Reactor-Reactor	Substation
DAL	100	Reactor-Reactor	Substation

Default Winter 50 F

	MVA	Limiting Device / Description	Location
Normal	100	Reactor-Reactor	Substation
LTE	100	Reactor-Reactor	Substation
STE	100	Reactor-Reactor	Substation
DAL	100	Reactor-Reactor	Substation

Equipment Notes: Rated Maximum Voltage=362kV, Rated Operating Voltage=345kV
 Data Revision Number: 2 Date Created: 10/10/2014 Prepared By: Participant Username

