



**PJM Interconnection**  
**Transmission Owner Operator**  
Examination Content Outline

<b>Content Areas</b>		<b># Questions</b>
<b>1</b>	<b>Transmission Operations</b>	<b>32</b>
1A	Transmission Equipment	8
1B	Operating Limits	7
1C	Constraint Management	5
1D	Outage Coordination	6
1E	Protection and Control	6
<b>2</b>	<b>Electrical System Dynamics</b>	<b>19</b>
2A	Real and Reactive Power	6
2B	Voltage Control	7
2C	Load Characteristics	4
2D	Frequency Control	2
<b>3</b>	<b>Emergency Response</b>	<b>21</b>
3A	System Disturbances	5
3B	Conservative Operations	3
3C	Capacity Emergencies	4
3D	Voltage Emergencies	4
3E	Loss of Control Center Functionality	2
3F	System Restoration	3
<b>4</b>	<b>Communications and Data</b>	<b>18</b>
4A	Reporting Requirements	4
4B	Communication Methods	4
4C	Data Validity and Verification	5
4D	Telemetry and Communications Equipment	5

**Notes:** Each examination form will include one set of 20 unscored pretest items in addition to the 90 scored items. 2 hours of testing time.