

***PJM Generator Interconnection Request  
Queue #R86  
Tanners Creek #2 138kV  
Feasibility/Impact Study***

**420143  
May 2007**

# R86 Tanners Creek #2 138kV Feasibility/Impact Study

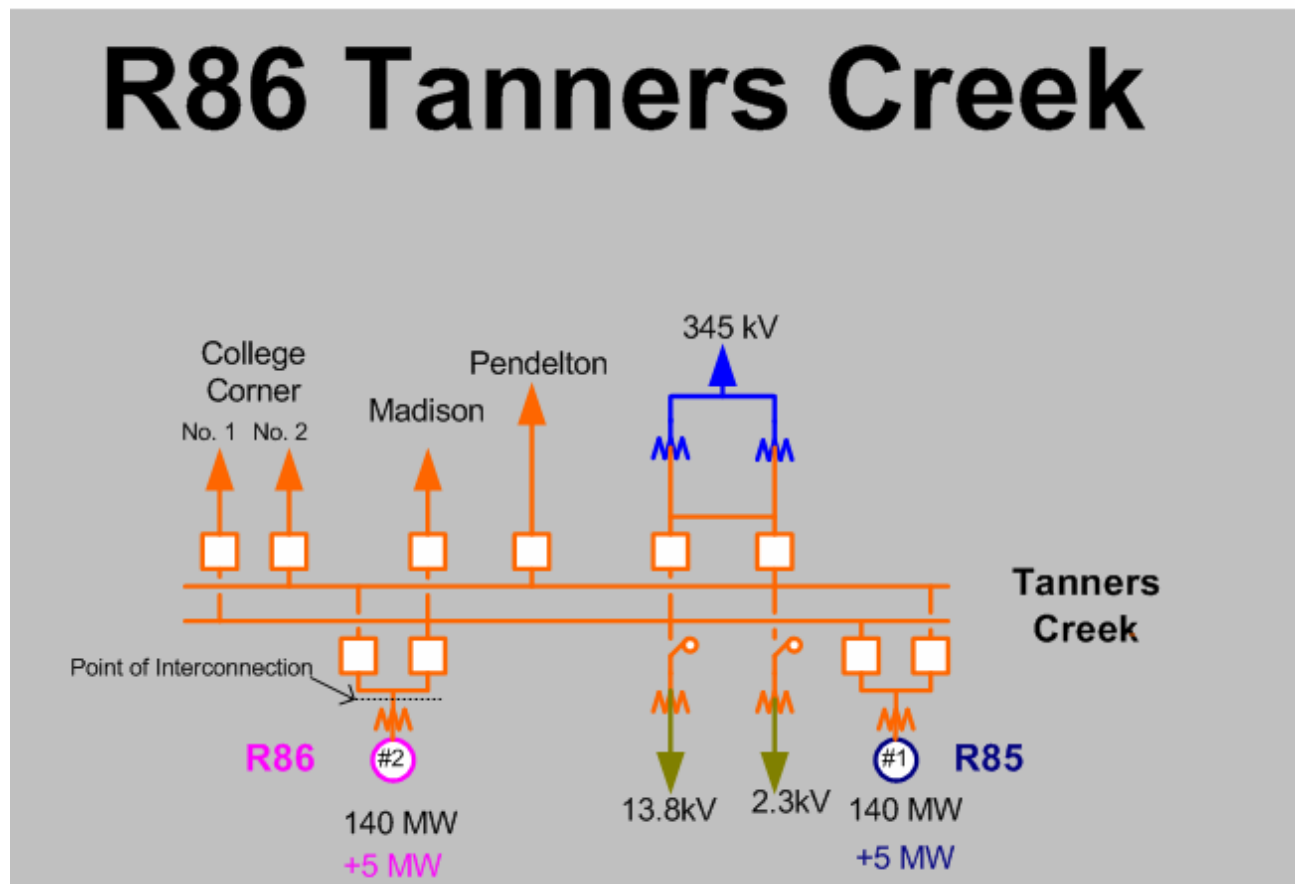
## General

American Electric Power Service Corporation as agent for the operating companies of the American Electric power system (Interconnection Customer) has requested an increase of 5 MW to the Capacity Interconnection Rights for Unit #2 at the Tanners Creek station. The increase is requested so that the rights will reflect the demonstrated capability of the unit. The Tanners Creek plant is located at 800 AEP Drive, Lawrenceburg, Dearborn County, Indiana.

## Direct Connection

The existing direct connection facilities have sufficient capability to accommodate the additional 5 MW of output from the generating unit #2. Therefore there is no need to change the existing facilities. See Figure #1.

Figure #1



### **Network Impacts**

The #R86 project was studied as a capacity increase of 5 MW at the Tanners Creek 138 kV substation. Project #R86 was evaluated for compliance with reliability criteria for summer peak conditions in 2011 to determine if Capacity Interconnection Rights can be granted. Potential network impacts were as follows:

### **Generator Deliverability**

No problems identified

### **Multiple Facility Contingency**

No problems identified

### **Contribution to Previously Identified Overloads**

No problems were identified

### **Short Circuit**

Not required, since there are no changes to the generating unit electrical characteristics.

### **New System Reinforcements**

None

### **Contribution to Previously Identified System Reinforcements**

None

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