



## Bath VAMC Building 78 Generator Replacement | Pre-Bid RFI Responses

1. Drawing E701 calls for (3) 400A 3P enclosed circuit breakers. Drawing E201 calls for (3) 800A 3P enclosed circuit breakers. We assume E701 is correct but would like confirmation. Obviously this greatly impacts our feeder size. Please advise.

**AE Works Response:**

Three (3) 400A,-3P enclosed electronic adjustable trip circuit breakers as indicated on Drawing E701 is correct.

2. It appears as though they desire to study everything downstream of the new generators, since they will likely provide a different fault current magnitude than the existing, thus changing any arc flash energies. It also appears they want a coordination study on this emergency system. Is there an existing electronic calculation model for this facility that they will provide as a starting point? Big difference in scope in building a model from scratch or them providing one. That should be an RFI from any bidder, unless it mentions in the CD's somewhere.

This is not a small scope relating to only the new equipment. A great deal is affected downstream and it appears they want that studied.

**AE Works Response:**

Provide a Coordination Study and Arc Flash Study consisting of the complete emergency system, starting with the new generator, via the Life Safety and Optional System breakers, automatic transfer switches, distribution panels, and branch panelboards.

A Power System Study was completed in 2008 that should be available from the VA, however, there have been modifications to the Emergency System since 2008.

3. Spec Section 26 05 71 Section 1.6 A States:  
The complete studies shall include a system one line diagram, short circuit and ground fault analysis, protective coordination plots, protective device settings, and arc flash hazard incident energy analysis for all overcurrent protective devices installed as part of this project and those protective devices that are existing in each Building and not being removed, replaced, or modified.

Is the intent of this project to complete a study beyond what the scope of generator involves?



**AE Works Response:**

No. Provide a Coordination Study and Arc Flash Study consisting of the complete emergency system, starting with the new generator, via the Life Safety and Optional System breakers, automatic transfer switches, distribution panels, and branch panelboards.

A Power System Study was completed in 2008 that should be available from the VA, however, there have been modifications to the Emergency System since 2008.

4. Not sure if you have had any RFI requests concerning the Arc-flash study. We are concerned they are looking for more than just new equipment.

It appears as though they desire to study everything downstream of the new generators, since they will likely provide a different fault current magnitude than the existing, thus changing any arc flash energies. It also appears they want a coordination study on this emergency system. Is there a one-line diagram that shows all panels and equipment downstream of the new generators? Is there an existing electronic calculation model for this facility that they will provide as a starting point? Big difference in scope in building a model from scratch or them providing one. That should be an RFI from any bidder, unless it mentions in the CD's somewhere.

This is not a small scope relating to only the new equipment. A great deal is affected downstream and it appears they want that studied.

**AE Works Response:**

Provide a Coordination Study and Arc Flash Study consisting of the complete emergency system, starting with the new generator, via the Life Safety and Optional System breakers, automatic transfer switches, distribution panels, and branch panelboards.

A Power System Study was completed in 2008 that should be available from the VA, however, there have been modifications to the Emergency System since 2008.

5. In looking at the Generator project in detail we noted there is an option to have the factor furnish the panel and the breakers attached to the generator. Wanted to ask if the VA can accept the generator with breakers mounted on it rather than mounted on the wall.

**AE Works Response:**

The generator main breaker shall be generator mounted. The 3- 400A-3P enclosed electronic adjustable trip circuit breakers feeding the existing transfer switches for the Life Safety and Optional Emergency systems shall be mounted on the wall.

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