



## The Plan of the Tests of the Stand-by Power Supply in 2016

Regular, obligatory monthly tests of the stand-by power supply – power center have been set for the following times:

Tuesday,	February 2	9 a.m.	
Tuesday,	March 1	9 a.m.	
Tuesday,	April 5	9 a.m.	
Tuesday,	May 3	9 a.m.	<b>a power-outage simulation</b>
Tuesday,	June 7	9 a.m.	
Tuesday,	July 12	9 a.m.	
Tuesday,	August 2	9 a.m.	
Tuesday,	September 6	9 a.m.	
Tuesday,	October 4	9 a.m.	
Tuesday,	November 1	9 a.m.	<b>a power-outage simulation</b>
Tuesday,	December 6	9 a.m.	

The tests will be performed such that at 9 a.m. an interruption of the Institute's power supply from the PRE network will be simulated in the power centre. The Institute's burden will be taken over by the stand-by power supply and after ca 15 minutes of the operation of the stand-by power supply, the power supply will return to the PRE network. A successful test will be practically manifested in the following way:

### **Building A (NE, SE Wing, Right Center, Left Center)**

**The unbacked network (white sockets)** will continue to be supplied with power during the test (including a power-outage simulation). If there really is a loss of power

supply from the PRE network, the unbacked network will be without power throughout the power-supply interruption.

**The network backed by the diesel aggregate (red and orange sockets)** will continue to be supplied with power during the test (including a power-outage simulation). If there really is a loss of power supply from the PRE network, this backed network will have two power-supply interruptions of several seconds. The first will occur in the transition into the diesel-aggregate backup and the second in the return to the PRE network.

**The UPS-backed network (green sockets)** should not be affected by the tests or if there really is a loss of power supply from the PRE network.

## **Building B**

**The unbacked network (white sockets)** will continue to be supplied with power during the test (including a power-outage simulation). If there really is a loss of power supply from the PRE network, the unbacked network will be without power throughout the power-supply interruption.

**The network backed by the diesel aggregate (red and orange sockets)** will continue to be supplied with power during the test (including a power-outage simulation). If there really is a loss of power supply from the PRE network, this backed network will have two power-supply interruptions of several seconds. The first will occur in the transition into the diesel-aggregate backup and the second in the return to the PRE network.

**The UPS-backed network (green sockets)** should not be affected by the test or if there really is a loss of power supply from the PRE network.

## **Building C**

**The unbacked network (white sockets)** will continue to be supplied with power during the test. If there really is a loss of power supply from the PRE network and during a power-outage simulation, this backed network will be without power throughout the power-supply interruption.

**The network backed by the diesel aggregate (red and orange sockets)** will have two power-supply interruptions of several seconds both during the test and if there really is a loss of power supply from the PRE network. The first will occur in the

transition into the diesel-aggregate backup and the second in the return to the PRE network.

**The UPS-backed network (green sockets)** should not be affected by the test or if there really is a loss of power supply from the PRE network.

## **Building D**

The building is connected to a network backed by a diesel aggregate. During the tests and if there really is a loss of power supply from the PRE network, there will be two power-supply interruptions of several seconds. The first will occur in the transition into the diesel-aggregate backup and the second in the return to the PRE network.

## **The Booths of Building D**

**The entire wiring of the booths with the exception of the HVAC** is connected to a UPS-backed network. The booths should not be affected by the test or if there really is a loss of power supply from the PRE network.

**The HVAC** is connected to a network backed by a diesel aggregate. During the tests and if there really is a loss of power supply from the PRE network, there will be two power-supply interruptions of several seconds. The first will occur in the transition into the diesel-aggregate backup and the second in the return to the PRE network.

## **Waste Water Treatment Plant**

**It is connected to a network backed by a diesel aggregate.** During the tests and if there really is a loss of power supply from the PRE network, there will be two power-supply interruptions of several seconds. The first will occur in the transition into the diesel-aggregate backup and the second in the return to the PRE network.

## **Underground Parking**

It will continue to be supplied with power during the test (including a power-outage simulation). If there really is a loss of power supply from the PRE network, it will have two power-supply interruptions of several seconds. The first will occur in the transition into the diesel-aggregate backup and the second in the return to the PRE network.

## **Entrance Gate**

During the tests and if there really is a loss of power supply from the PRE network, there will be two power-supply interruptions of several seconds. The first will occur in the transition into the diesel-aggregate backup and the second in the return to the PRE network.

These tests are a prerequisite for the operation of a stand-by power supply. As they involve a certain degree of the risk of a possible power-supply interruption, we ask all the staff for understanding this situation and considering whether to secure sensitive electrical equipment by the local UPS during the planned times or to disconnect it during the test.

For more information, please contact Ing. J. Hofman – Ext. 361.

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