

## **Session Program**

**13 March 2018**

# **Modulator Electrical Safety Review**

## **Electrical hazards and protection**

ESS HQ, Stora Tuna  
Tunavägen 24 Lund

# Tuesday 13 March

13:10

## Electrical hazards and protection

**Session** | **Location:** ESS HQ, Stora Tuna, Tunavägen 24 Lund

### 13:10-13:20 Identification of electrical hazards

**Speaker**

Carlos De Almeida Martins

### 13:20-13:30

#### Direct contact - IP protection by the enclosure; Door switches; Grounding

**Speaker**

Jose de la Fuente

### 13:30-13:40

#### High Voltage - Tank sealing and HV cables/receptacles sealing

**Speaker**

Carlos De Almeida Martins

### 13:40-13:50

#### High Power - Sizing of power cables

**Speaker**

Jose de la Fuente

### 13:50-14:10

#### High Short Circuit Power - Sizing of circuit breakers; Protection against explosion and arcs

**Speakers**

Carlos De Almeida Martins, Jose de la Fuente

### 14:10-14:30

#### High Stored Energy - Emergency discharge systems; Capacitor short circuiting and grounding

**Speaker**

Carlos De Almeida Martins

### 14:30-14:50

#### Discussion

14:50