

## **Remote Control Systems, Selected References**

### **1. General.**

Induperm has supplied Remote Control system for many years for all types of airports. Today we have developed standard system for smaller or regional airports with a limited complicity in taxiways and stopbarres. For larger international airports we have been involved in co-operation with companies who have specialized in large computer systems. We have two different remote control “families”:

AMRES type 950.

Our AMRES system is a modular PC-based system with Touch-Screen operation in Tower. The system is very flexible, and can easily be adapted to the actual configuration. Communication from TWR to power station can be selected as 2-wire CU-connection or as a fiber optical connection. Also available as redundant system

System type 860.

This system is  $\mu$ -processor based, and specially designed for small airports with up to 4 light systems and maximum 8 On/Off functions. Operation in TWR by means of push-buttons. Communication from TWR to power station over 2-wire CU-connection.

### **2. References.**

Greenland

- We have over the period 1997 til 2006 supplied complete systems incl. remote control system 860, Constant Current Regulators, Isolating Transformers and elevated light fixtures for 8 regional airports.  
Contract value app. 1,2 mill. €/ airport.

Germany

- Nordholz Marine Flughafen  
This large contract, finalized end of 1997, did include a wide range of products:
  - Complete Remote Control System for more substations, based on Siemens PLC's.
  - 35 nos. Constant Current Regulators
  - Elevated light fixtures for APH, REH and TEL, all together app. 1800 pcs.
  - Inset light fixtures for APH, THR, END and CL.
  - PAPI systems
  - Distance Marker Signs acc. to Stanag
  - Isolating Transformers for all light fixturesContract value app. €2 mill.
- Paderborn Flughafen  
The contract did include Remote Control- and Supervision System beside app. nos. 35 Constant Current Regulators.  
Delivery and commissioning in 1998-1999.  
Contract value app. 0,5 €mill.

- Allendorf Flughafen

This contract, finalized in 2006, did include a wide range of products:

- Complete AMRES Remote Control System
- 15 nos. Constant Current Regulators
- Elevated light fixtures for APH, REH and TEL
- Signs and belonging constant current transformers
- PAPI systems
- Isolating Transformers for all light fixtures

- Wilhelmshafen Flughafen

This contract, finalized in 2008, did include a wide range of products:

- Complete AMRES Remote Control System
- 15 nos. Constant Current Regulators
- Elevated light fixtures for APH, REH and TEL
- Signs and belonging constant current transformers
- Isolating Transformers for all light fixtures

## Denmark

- Esbjerg Airport

This airport is one of our most important partners, where we have supplied, installed and tested a wide range of products. We have since 1971 supplied several generations of Remote Control Systems, Constant Current Regulators and light fixtures. The latest contract for renovation of the lighting system was in 2007 / 2008 and did include:

- Complete AMRES Remote Control System.
- 25 nos. Constant Current Regulators type 961
- Elevated light fixtures for APH, REH and TEL
- Inset light fixtures for CL and TDZ.
- RGL systems
- Isolating Transformers for all light fixtures

- Bornholm Airport

The latest contract for renovation of the lighting system was in 2008 / 2009 and did include:

- Complete AMRES Remote Control System.
- 15 nos. Constant Current Regulators type 961
- Elevated light fixtures for APH
- RGL systems
- Isolating Transformers for all light fixtures

## Mozambique

In the period 1984 1995 we have supplied Remote Control Systems, Constant Current Regulators and elevated light fixtures to 9 airports in Mozambique.

The systems are now being changed, and we have from 2008 to 2010 supplied:

- Complete AMRES Remote Control System.
- Constant Current Regulators type 961
- Elevated light fixtures for APH, REH and TEL

to the following airports:

- Maputo Airport
- Beira Airport
- Quelimane Airport
- Tete Airport
- Nampula Airport

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OLH