

## **DIPL.-ING. ROLF WELLENDORF**

Consulting engineer for electrical engineering (Member of the German Association of Electrical Engineers)  
Member of the Chamber of Architects and Engineers of the Federal State of Schleswig-Holstein (No. 873)

# **CONSULTING AND PLANNING**

**ENERGY DISTRIBUTION**

**ENERGY APPLICATION**

Legal advice on aviation, planning of  
airport infrastructure systems and  
ATC-systems

Management consultant and planning agent  
for a local power supply company

### **Headquarters:**

**Ingenieurbüro Rolf Wellendorf**  
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## ENERGY DISTRIBUTION ENERGY APPLICATION CONSULTING AND PLANNING

### A. LEGAL ADVICE ON AVIATION, PLANNING OF AIRPORT INFRASTRUCTURE SYSTEMS AND ATC-SYSTEMS

#### A.1 Legal advice on aviation for airport operators Organisation of infrastructural construction works and their monitoring Assistance in approving the planning of an international airport

Obtaining business licences, obtaining alterations of business licences,  
assistance in necessary approval procedures  
Development and expansion of aerial infrastructure according to air traffic  
legislation, national legislation as well as international regulations, ICAO, for  
all classifications up to code letter F  
Development of extension plans for airport projects up to code 4 F  
Project controlling

#### A.2 Designing equipment for commercial airports, regional airports, commercial airfields, heliports, VFR and IFR up to code letter F

##### Power supply, lighting, mobile techniques

Power supply systems (medium voltage and low voltage)  
UPS systems  
Rotating converter systems  
Emergency power supply systems  
All kinds of ground power supply systems  
400 Hz power supply systems  
DC supply systems  
Apron lighting  
Telecommunication systems, optical transmission systems (optic fibres)  
Mobile airport techniques for aprons and runways  
Protection against fire, winter road clearance  
General supply to aircraft, disposal of aircraft, air freight processing

##### ATC systems

###### - Visual landing and taxi aids

Lighting systems category I – III  
Taxiway signage  
Monitoring and control systems  
Computer-aided guidance  
Docking systems  
Systems for aircraft guidance and positioning  
Tower equipment

##### ATC systems

###### - Electronical landing and taxi aids

Air navigation radio systems category I – III (ILS, DME, NDB)  
Approaches with satellite navigation  
Tower equipment and radar installations  
Meteorological equipment  
Early ice warning systems

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## **A.3 Equipment for air bases and other military infrastructure according to NATO standards and standards of the German Military:**

Power supply systems (medium voltage and low voltage)  
All kinds of ground power supply systems  
UPS systems  
Rotating converter systems  
Emergency power supply systems  
400 Hz power supply systems  
DC supply systems  
Lighting systems category I – III  
Taxiway signage  
Distance markers (mil.), arrester cable markers (mil.)  
Apron lighting  
Monitoring and control systems  
Air navigation radio systems category I – III (ILS, DME, NDB)  
Telecommunication systems, optical transmission systems (optic fibres)  
Power supply and monitoring for maintenance and processing of various weapon systems on the aprons

All projects include wiring, necessary foundations and earthworks, earthing systems, transmitter houses and concrete buildings for electrical power units

All services are charged according to HOAI (Free Structure for Architects and Engineers)

## **A.4 REFERENCE LISTING**

Commercial airports, regional airports, commercial airfields, VFR and IFR, heliports, airbases of the German Airforce in the German Federal States of

✈ Schleswig-Holstein  
✈ Mecklenburg-Vorpommern  
✈ Berlin  
✈ Brandenburg  
✈ Sachsen-Anhalt  
✈ Sachsen  
✈ Thüringen  
✈ Niedersachsen

## **B. MANAGEMENT CONSULTANT AND PLANNING AGENCY FOR A LOCAL POWER SUPPLY COMPANY (1977 – 2011)**

- Power distribution stations
- Medium voltage switchgear systems
- Transformers
- Low-voltage switchgear systems
- Wiring (medium voltage and low voltage)
- House service connexions
- Short circuit calculations
- Network calculations
- Network extensions
- Concrete buildings for electrical power units
- Development of digital maps
- Computer-aided administration of the power supply systems

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