

DEPARTMENT OF THE AIR FORCE

ELECTRIC SERVICE SPECIFICATIONS

1. PREMISES TO BE SERVED: RAMSTEIN AIR BASE including MILITARY FAMILY HOUSING (TYFR) and Ramstein Storage Area (Cold Storage, Medical Depot, Can and Drum, Warehouse 5) - (TYFQ)
2. ESTIMATED SERVICE REQUIREMENTS:

Estimated maximum demand	21,000 kW
Estimated annual consumption	125,000,000 kWh

(Government is in no way obligated to use, nor is it restricted to, the above estimated requirements.)
3. POINT OF DELIVERY. **see paragraph 6.a.**
4. DESCRIPTION OF ELECTRIC SERVICE. The Contractor shall supply alternating current at 3 Phase, 3 Wire, 50 Hertz, 20,000 Volts.

The voltage of contractor's high tension line is 20,000 Volts.

Substations are property of: **see paragraph 6.b.**

The reactive current compensation equipment in the substation is property of the US Government.

Transformer(s) in the substation:	total demand	see paragraph 6.b.
Overload capacity to	kVA for	hours
Transformer connections (Delta or Wye):	high side low side	Delta Wye
Lighting arrests:	type	rating
Switching apparatus:	high side Interrupting capacity	kVA
	low side Interrupting capacity	kVA,
5. METERING AND BILLING: **see paragraph 6.c.**

6. ALTERATIONS AND ADDITIONS:

6.a. POINTS OF DELIVERY AND PROPERTY BORDER:

- (1) Transformer station “Birkenschlag”, bldg. 868 (north side of the Air Base Area).
The structural and the electrical part are Pfalzwerke Netz AG (PW)-owned.
- (2) The delivery station “Waldschlag”, bldg. 17, is located next to the US-owned transformer station 16 - entrance US housing. The structural and the electrical part are PW-owned. The delivery point “Waldschlag” is connected to the transformer station “Birkenschlag” with four PW-owned 20 kV cables. The demand to be made available of 40 MVA (normal mode) occurs at delivery station “Waldschlag”. The point of delivery and the property border are the 20 kV terminals at the two 20 kV outgoing feeder switches which connect both US-owned connection cables to the US-owned transformer station 16.
- (3) Delivery station “Drosselschlag”, bldg. 2312 is located next to the US-owned transformer station (2339 XVIc new). The structural and the electrical part are PW-owned. The delivery point “Drosselschlag” is connected to the transformer station Landstuhl with four PW-owned 20 kV cables. The point of delivery and the property border are the 20 kV terminals at the two 20 kV - outgoing feeder switches which connects both US-owned connection cables to the US-owned transformer station 2312 (XVIc new).
- (4) The two connection cables between “Waldschlag” and “Drosselschlag” are PW-owned.
- (5) In normal case the Air Base will be fed from delivery station “Waldschlag”. The feeding from Landstuhl to delivery station “Drosselschlag” is for emergencies.
- (6) The PW-owned transformer station “Birkenschlag”, as well as the PW-owned 20 kV delivery stations “Waldschlag” and “Drosselschlag” are located within the Air Base. The usage of the real estate is regulated in a separate licensing agreement between the German Federal Office for Real Property Administration (Bundesanstalt für Immobilienaufgaben - BImA) and PW. To assure a maximum uninterrupted service for the Air Base, the access to the above mentioned technical facilities of PW must be guaranteed any time. In case the US Government temporarily restricts the access to the premise, exercising their rights based on the international lease agreement, and if during this period a malfunction at the PW technical facilities occurs, the electric services must be disconnected at the PW 110 kV cable transfer mast (outside the Air Base). In this case an interruption in electric services must be expected for an extended period of time.

6.b. DESCRIPTION OF ELECTRIC SERVICE:

The US Government-owned 101 transformer stations include 174 ea transformers 20,000/400/230V with a total capacity of 122,355 kVA. The electrical distribution system installed beyond the delivery points will be maintained and operated by the US Government.

6.c. METERING:

Demand and consumption are metered at a voltage level of 20,000 volt by 8 electronic meters for active, reactive current and active power (demand).

The metering of electric service for the four PW-owned 20 kV cables, transformer station “Birkenschlag” bldg. 868 to delivery station Waldschlag bldg. 17, is in delivery station “Waldschlag”. The metering of electric services (emergency service) for the four PW-owned 20 kV cables (transformer station Landstuhl to delivery station “Drosselschlag” bldg. 2312) is in the transformer station Landstuhl.

Meter point registration number:

DE0003966687700000000000050261047

7. **THIRD PARTY USERS:**

The US Government agrees to the connection of “Third parties” which are connected to the US-owned electrical distribution system on Ramstein Air Base.

Following “Third parties Users” are connected:

- a. DeTe Immobilien (behind bldg. 500)
Point of delivery: Terminals of the meter at the exterior distribution
Metering: Single tariff watt hour meter
Meter number: 565769
- b. Postamt Container (beside bldg. 1004)
Point of delivery: Terminals of the meter in bldg. 1004
Metering: Single tariff watt hour meter
Meter number: 79321
- c. CMC Cars (outside of Ramstein Air Base)
Point of delivery: Incoming terminals of the US-owned cable in the cable distribution panel kV 24 next to the concrete pole on the main road from Kaiserslautern - Einsiedlerhof to the east gate. The connection and the fuses for the feeder line are located at the US-owned transformer station 2020.
Metering: Single tariff watt hour meter
Meter number: 109569
- d. Spaecht Insurance (outside of Ramstein Air Base)
Point of delivery: Incoming terminals of the US-owned cable in the cable distribution panel kV 24 next to the concrete pole on the main road from Kaiserslautern - Einsiedlerhof to the east gate. The connection and the fuses for the feeder line are located at the US-owned transformer station 2020.
Metering: Single tariff watt hour meter
Meter number: 582355
- e. Stöckel (outside Ramstein Air Base)
Point of delivery: Terminals of the US-owned cable in the cable distribution panel kV 24 next to the concrete pole on the main road from Kaiserslautern - Einsiedlerhof to the east gate. The connection and the fuses for the feeder line are located at the US-owned transformer station 2020.
Metering: Single tariff watt hour meter
Meter number: 387284
- f. Vodafone (behind bldg. 106)
Point of delivery: The connection terminal of the outlet cable in the US-owned transformer station bldg. 104.
Metering: Single tariff watt hour meter
Meter number: 598234 (since 28 February 2005)
- g. Stadtentwässerung, Kaiserslautern (former tank farm - this area belongs to BImA).
Point of delivery: The circuit outlet fuses within US Government-owned 20 kV transformer station at the “Class III “, Station 65 (since 01 November 2003).
Metering: Single tariff watt hour meter
Meter number: 534687 (since 03 June 2008)

h. BImA (for firm Zueblin at former tank farm - area belongs to BImA)
Point of delivery: The circuit outlet fuses within US Government-owned 20 kV transformer station at the “Class III “, Station 65 (since 01 November 2003).
Metering: Single tariff watt hour meter
Meter number: 558260

i. PW - Transformer Station “Birkenschlag” (own consumption), bldg. 868
Point of delivery: The fuse outlet terminal within the US Government-owned transformer station 3.
Metering: Electronic meter for active-, reactive current and active power in the transformer station bldg. 868 (since 28 September 2005).
Meter number 525465

The consumption of the third party users under item 7.a.,b.,c.,d.,e.,f.,g.,h., and i. is shown separately and deducted once a year from the December invoice for the US Government.

8. PHOTOVOLTAIC PLANT: A PV system is installed on building 2128 with a peak capacity from 46 KWp. The generated energy will be added to the main metering device IAW the commercial balanced transmission („kaufmaennisch-bilanzielle Weiterleitung“).

9. DEMAND TO BE MADE AVAILABLE: 40 MVA

10. PFALZWERKE DATA ON INVOICES:
a. Consumer: Ramstein-Miesenbach, Daimlerstrasse
b. Contract no.: 20901467
c. Customer no.: 10500824

11. INVOICES WILL BE SUBMITTED TO: US Air Force
86 CES/CEN
Flugplatz, Geb. 573
Air Base, Bldg. 573
66877 Ramstein

12. PAYMENT WILL BE MADE BY: DFAS Limestone
DFAS EU, ATTN: AF
Kleber Kaserne, Gebäude 3200, Mannheimer Strasse
67657 Kaiserslautern

13. TECHNICAL REPRESENTATIVE: The Base Civil Engineer Ramstein Air Base is the technical representative of the Contracting Officer for the purpose of accepting services and verifying invoices.