PUBLIC POWER CORPORATION

ATHENS - GREECE

October 1996

SPECIFICATION SS-14/2

20kV OUTDOOR, SINGLE PHASE FUSE DISCONNECTING SWITCHES

(A). GENERAL REQUIREMENTS

I. TYPE : Outdoor

II. SERVICE CONDITIONS

a. Ambient temperature: max. 40^{o}C, min. -15^{o}C.
b. Altitude : below 1000m from sea level.

III. SYSTEM FREQUENCY : 50Hz.

IV. RATED VOLTAGE : 20kV, highest voltage: 24kV.

V. CURRENT RATING : 200A

VI. INSTALLATION

Fuse disconnecting switches shall be suitable for vertical or 30^{o} angle under hung.

VII. INTERRUPTING CAPACITY : 10000Amps symmetrical

VIII. STANDARDS

All material, equipment and fabrication shall conform to the latest applicable American Standards (IEEE, USA, ASTM, NEMA) or equivalent European Standards subject to Purchaser's approval.

IX. FUSE LINKS RATING

a. Current rating: fuse links of two ratings are provided as specified below (SPECIFIC REQUIREMENTS).

b. Interrupting current rating : 10000Amps.

X. DESIGN REQUIREMENTS

a. The fuse disconnecting switch shall be provided with brown porcelain insulators.

b. The steel base of disconnecting switch shall be hot-dip galvanized in accordance with ASTM Standards - Specification A153-65.

c. Clips and terminal pads shall be silvered.

XI. INSULATORS WITHSTAND VOLTAGE TESTS

Fuse disconnecting switch must withstand without flashover or other electric failure when voltage is applied as follows:

a.	50 cycles frequency, one minute Dry	:	70kV
b.	50 cycles frequency, ten seconds Wet	:	60kV
c.	Impulse 1,5/40 full wave (Positive and Negative, Dry)	:	150kV

XII. SPECIFIC REQUIREMENTS

Item	Description - Ratings
1	20kV single pole fuse disconnecting switch complete with fuse link, fuse supports provided with 10A fuse link of 10000Amps (symmetrical) interrupting current.
2	As that of the previous item but 0.6A fuse link of 10000Amps (symmetrical) interrupting current.

XIII. NAME PLATE MARKINGS

The following minimum information shall be given on the name plate of all fuse disconnecting switches.

1. On the fuse disconnecting switch:

   a. Manufacturer's name of designation mark.
   b. Manufacturer's type or designation number.
   c. Current rating.
   d. Voltage rating.

2. On the fuse link:

a. Manufacturer's name or designation mark.
b. Manufacturer's designation number or type.
c. Current rating.
d. Voltage rating.

XIV. DATA TO BE SUPPLIED BY SELLER

1. Outline and section drawings of single pole fuse disconnecting switch unit, with essential dimensions and mounting details.

2. Net weight of assembled single pole fuse disconnecting switch.

3. Contact pressure between contact surface.

4. Maximum design voltage at which the fuse disconnecting switch is designed to operate.

5. Rated withstand voltage at which the fuse disconnecting switch must withstand without flashover or other electric failure when voltage is applied as specified in Item X.

6. Rated temperature rise the ambient which the fuse disconnecting switch shall not exceed operating under specified conditions.

7. Fuse links rating:

   a. Current rating
   b. Voltage rating
   c. Interrupting rating
   d. Time-current characteristic curves.

8. Test report for any test carried on the fuse disconnecting switch.

9. Design and test standards applied by the manufacturer.

XV. PACKING

The packing of the fuse disconnecting switches shall be within wooden robust boxes.

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CV/gp/11.3.91
IIg/KV/PK/ak/10.10.96