SEATTLE CITY LIGHT

MATERIAL STANDARD

STANDARD NUMBER: 7846.15

PAGE: 1 of 2 SUPERSEDING: NEW

EFFECTIVE DATE: July 19, 2006

ALUMINUM HEX NUT, HEAVY



1. Foreword

1.1 Scope

This material standard covers the requirements for aluminum heavy hex nuts.

1.2 Application

Aluminum hardware is used to make up bolted aluminum-to-aluminum and aluminum-to-copper electrical connections. Refer to Construction Guideline D14-4/NSV-20. This includes connections to integral web channel bus (IWCB) in the Network, transformer and bus terminals, and aluminum lugs in stations, and elsewhere.

Aluminum fasteners are anodized and lubricated for corrosion resistance and to prevent galling and seizing.

1.3 Industry Standards

Hex nuts shall meet the applicable requirements of the following industry standards:

ASME B18.2.2-1987 (R1999) - Square and Hex Nuts (Inch Series)

ASTM F467-1993 - Standard Specification for Nonferrous Nuts for General Use

ASME B18.12-2001 - Glossary of Terms for Mechanical Fasteners

2. Fabrication

2.1 Common Requirements

	Requirements	Reference
Product Name	heavy hexagon nut	ASME B18.12, Section 3.2.1.14
Material	aluminum alloy 6262-T9	ASTM F467, Tables 1 and 2
Dimensions	per reference	ASME B18.2.2, Table 9
Threads	standard series UNC Class 2B	ASME B18.2.2, Table 9, General Note (d)

Nuts shall be anodized and coated with Aluminite 205.

STANDARDS COORDINATOR

STANDARDS SUPERVISOR

UNIT DIRECTOR

Hardev Juj

UNIT DIRECTOR

Hardev Juj

SEATTLE CITY LIGHT

MATERIAL STANDARD

Aluminum Hex Nut, Heavy

STANDARD NUMBER: 7846.15

PAGE: 2 of 2 SUPERSEDING: NEW

EFFECTIVE DATE: July 19, 2006

2.2 Marking

Nuts shall be marked according to ASTM F467, Section 17.1.

2.3 Detailed Requirements

Stock Number	Nominal Size, in.	Threads per in.
783558	1/2	13
783560	5/8	11

3. Packaging

Nuts shall be packaged 25, 50 or 100 per box.

Each standard package shall be legibly marked with the following information:

- Manufacturer's identification
- Product description
- Seattle City Light's Stock Number
- Quantity contained

Each shipping container shall be legibly marked with the following information:

- Manufacturer's identification
- Country of origin
- Product description
- Seattle City Light's Purchase Order Number
- Seattle City Light's Stock Number

4. Shipping

Product shall be shipped to the address specified on the Purchase Order.

5. Issuance

Stock Unit: EA

6. Approved Manufacturers

Seattle City Light Material Control personnel will identify and approve distributors, and hence manufacturers, for this group of Stock Numbers.