Hardware, Miscellaneous



1. Scope

This standard covers the requirements for miscellaneous hardware, consisting of turnbuckles, running thread rod, coupling nuts, full thread studs, and slip-on lock nuts.

This standard applies to the Seattle City Light (SCL) stock numbers cited in Section 4.

2. Application

Slip-on lock nuts are designed to be positioned on a threaded rod at any point, eliminating the need to thread from the end of the rod down. Slip-on lock nuts are twisted open by hand, inserted where desired, then hand twisted closed and tightened with a wrench.

Coupling nuts are for use to connect anchors and steel rods.

3. Industry Standards

Hardware shall meet the applicable requirements of the latest revision of the following industry standards:

ASTM F1145-05; Standard Specification for Turnbuckles, Swaged, Welded, Forged

ASME B1.1; "Unified Inch Screw Threads"

ASME B30.26; "Rigging Hardware"

ASME B18.12; Glossary of Terms for Mechanical Fasteners

ASTM A153/A153M; "Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware"

ASTM B98; "Standard Specification for Copper-Silicon Alloy Rod, Bar and Shapes"

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4.1 Turnbuckles

Figure 4.1. Turnbuckle



Table 4.1. Turnbuckles

	Stock No. 787982	Stock No. 787937
Туре	H-H	J-J
Thread diameter (in)	1/2	3/4
Take up (in)	6	6
Safe working load (lb)	1100	4000

Turnbuckles shall meet the applicable requirements of ASTM F1145 and ASME B30.26.

Turnbuckles shall be hot-dip galvanized according to the requirements of ASTM A153.

4.2 Running Thread Rods

Figure 4.2. Running Thread Rod



Table 4.2. Running Thread Rods

Stock No.	Size, Nominal (in)	
780998	3/8-16	
780999	1/2-13	
781000	5/8-11	

Running thread rod shall be zinc plated.

Running thread rod shall be provided in 10-ft lengths.

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4.3 Coupling Nuts

Coupling nuts shall be zinc plated.

Figure 4.3. Coupling Nut



Table 4.3. Coupling Nuts

Stock No.	Size, Nominal (in)	
780048	3/8	
780049	1/2	
780050	5/8	

4.4 Full Thread Studs

Full thread studs shall be fabricated from silicon bronze meeting the requirements of ASTM B98.

Full thread stud ends shall have flat chamfered points each end.

Figure 4.4a. Full Thread Stud, 2-3/8-in Length



Figure 4.4b. Full Thread Stud, 1-1/2-in Length



Table 4.4. Full Thread Studs

Stock No.	Size, Nominal (in)	
786600	3/8-16 x 2-3/8	
012944	3/8-16 x 1-1/2	

4.5 Slip-On Lock Nuts

Slip-On lock nuts shall be zinc-plated.

Figure 4.5. Slip-On Lock Nuts



Table 4.5. Slip-On Lock Nuts

Stock No.	Diameter (in)	Thread Size	Load Limit (lb)
014403	3/8	16	2000
014404	1/2	13	4000
014405	5/8	11	5000
014400	0/0		0000

5. Packaging

Product shall be packaged to prevent damage during shipping, handling, and storage.

Individual packages shall be legibly marked with:

- Manufacturer name
- Manufacturer catalog number
- Product description
- SCL stock number

Shipping containers shall be legibly marked with:

SCL purchase order number

6. Issuance

Stock Unit: EA

7. Approved Manufacturers

SCL Material Control personnel may identify and approve manufacturers of all stock numbers listed in this standard.

8. Sources

SCL Stock Catalog page 78-26; March 25, 2011
Federal Specification FF-T-791B; Turnbuckle, May 2, 1967
Shipek, John; SCL Standards Supervisor and originator of 7801.42