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REVISIONS: UPDATED LEGAL ACKNOWLEDGEMENT FORM. FD MAR '16

DESIGNED J. AGNOLIN	RECOMMENDED  F. DENNERT	ACCEPTED  G. REIMER	ENGINEER OF RECORD 	NOTICE FROM THE EXECUTIVE VICE PRESIDENT TRANSMISSION AND DISTRIBUTION AND CUSTOMER SERVICE		
DISTRIBUTION STANDARDS 		ISSUED: MAR 2016 REPLACES: MAY 2004 ORIGINALLY ISSUED: NOV 1980				PAGE 1 OF 2

Scope

This manual is one of a series containing standards for construction of the BC Hydro electrical distribution plant within the service area of BC Hydro. A new distribution plant shall be designed, constructed, owned, operated, maintained and repaired to these standards.

Purpose of Standards

BC Hydro objectives require standardization to:

- Ensure uniform safety requirements comply with BC statutes and regulations.
- Provide uniform system reliability.
- Provide uniform operating practices.
- Permit economic bulk purchasing of materials.
- Achieve optimum life cycle cost of plant construction.
- Effect efficient quality assurance.

Responsibility

The Distribution Standards Department prepares these standards and verifies that specified plant and procedures will perform adequately under all normally expected conditions encountered throughout the province of British Columbia. These standards are approved by Professional Engineers. It is the responsibility of BC Hydro Managers to ensure that the standards are followed unless abnormal conditions are encountered that require variations. These variations should be kept to a minimum and their performance shall be the responsibility of the Professional of Record in charge of the project, who will record and seal the variation based on satisfactory qualifications and experience to do so. As per the latest revision of the BC Hydro Distribution Owner's Engineer Guide, these variations must be accepted by BC Hydro's Owner's Engineer.

Use of Stock Materials

The electrical distribution plant covered by these standards is built using stock materials approved by a Professional Engineer as required by law. The use of non-stock materials for special and unusual situations must be approved by Distribution Standards or the BC Hydro Engineer responsible for the project.

Revisions to Manual

These standards are revised from time to time to improve the safety, performance, workability, cost effectiveness or appearance of the plant. The existing plant built to previous standards need not be updated unless so specifically advised by BC Hydro. When maintenance or other work, such as voltage conversion or conductor change is being done, updating plant to current standards is encouraged.

Mailing Addresses

The manual has been issued to a corporation or firm rather than to an individual. The corporation or firm is responsible for the safekeeping of the manual, and for keeping it current. Changes of address or in number of copies required must be reported promptly.

Suggestions for changes in the manual, or required changes of address may be made on the pre-addressed comment sheet included in the Manual and with each issue of revision.

REVISIONS: UPDATED LEGAL ACKNOWLEDGEMENT FORM. FD MAR '16

DESIGNED J. AGNOLIN	RECOMMENDED  F. DENNERT	ACCEPTED  S. REIMER	ENGINEER OF RECORD  F. U. DENNERT PROFESSIONAL ENGINEER BRITISH COLUMBIA	NOTICE FROM THE EXECUTIVE VICE PRESIDENT TRANSMISSION AND DISTRIBUTION AND CUSTOMER SERVICE		
DISTRIBUTION STANDARDS BC Hydro		ISSUED: MAR 2016 REPLACES: MAY 2004 ORIGINALLY ISSUED: NOV 1980		PAGE 2 OF 2	ES43/53/54/55/65 A1-01.02	R 4



Information Bulletin:

Release of ES54 B3-06 Circular Concrete Service Box

1.0 Items Covered

- ES54 B3-04 Lightweight Service Box Large Sidewalk / Lane Duty
ES54 B3-06 Lightweight Service Box Circular Concrete Service Box

2.0 Overview

New underground civil standard ES54 B3-06 has been created as an alternative to ES54 B3-04 to address supply chain issues. This product is intended for use in both sidewalk and lane duty applications.

Use the material numbers in Table 1 for large lightweight service boxes only where necessary, including retrofit scenarios where space is constrained.

Table 1 – ES54 B3-04 large sidewalk/lane duty service box material numbers

Material number	Description
97002911	Large sidewalk duty lightweight service box
97003110	Large sidewalk duty lightweight riser

Table 2 presents material numbers for the new circular concrete service box. The associated heights and weights are outlined in Figure 1.

Table 2 – ES54 B3-06 circular concrete service box material numbers

Item	Material number	Description
1	97010149	Large circular concrete service box
2	97010152	Large circular concrete service box extension
3	97010150	Large circular concrete service box riser
4	97010151	Large circular concrete service box collar

3.0 Action

The new standard is available for use immediately.

Designers and Engineers

Designers and engineers may now use ES54 B3-06 as a replacement for ES54 B3-04. Application of the new circular concrete service box standard is comparable to the polymer concrete lightweight secondary service box standard and should not create significant impacts if used as a replacement for polymer service boxes in existing designs. Designers and engineers should be aware of any implications in their designs due to the slight differences in dimensions, weight, and duct entry between the two products.

Compatible unit groups (CUGs) have been created for this product and are now available.

Until the supply of polymer concrete service boxes is no longer an issue, designers shall use circular concrete service boxes for all greenfield designs and any brownfield designs where space is available for the slightly larger footprint.

To preserve the limited supply of polymer concrete service boxes, they shall only be used in brownfield designs where congestion prevents the use of the new circular concrete service boxes.

Civil Installers

Civil installers should:

- a. Use ES54 B3-06 when referencing weights and dimensions; and
- b. Stock and use Starcon lifting clutches for appropriate lifting practices of precast structures supplied by Langley Concrete Group.

4.0 Figures

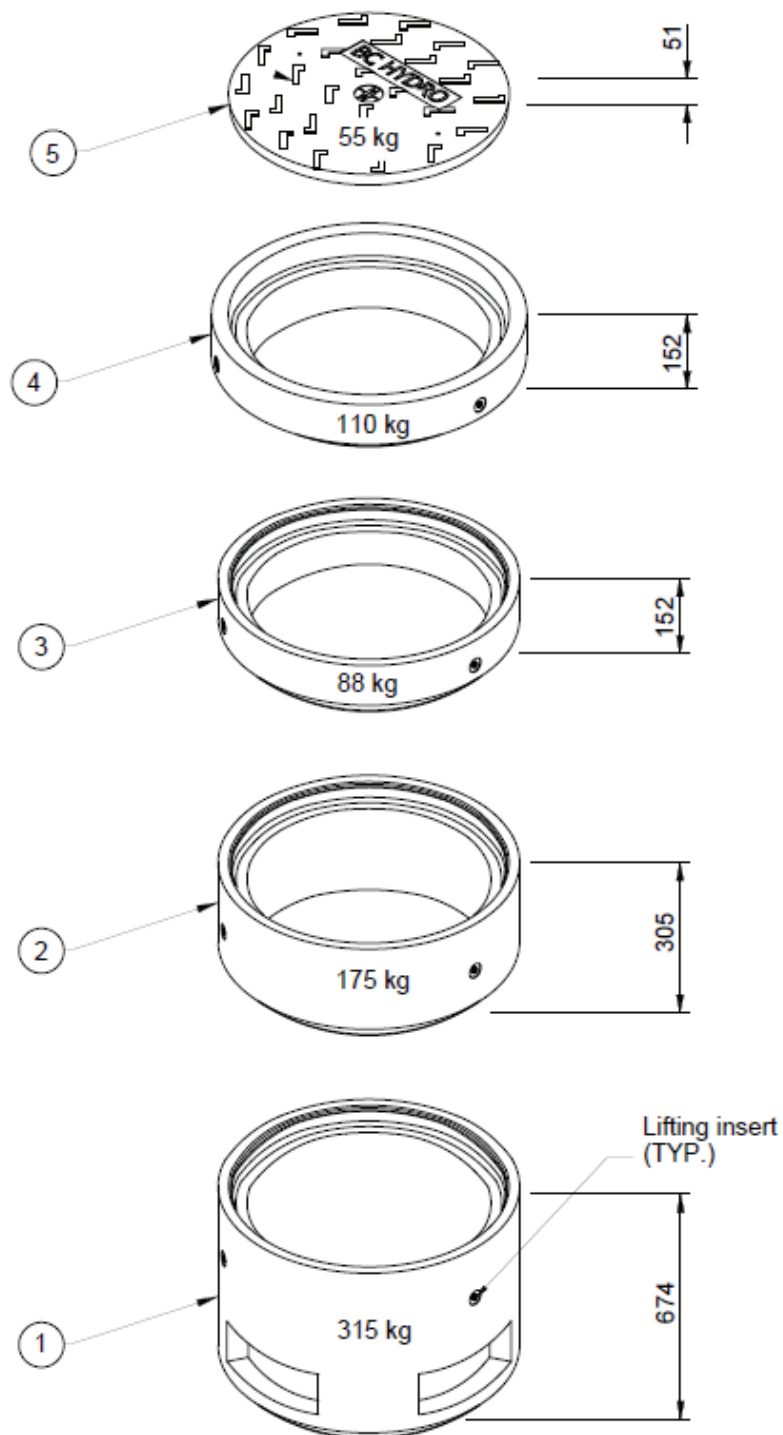


Figure 1 – Circular concrete service box

5.0 Distribution Standards Contact

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6.0 Approval

Recommended		Reviewed		Approved	
					
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