

# **RCM Sections Update**

## **Division 16 – Electrical**

### **Section 16003 General Electrical Provisions**

#### **Article 1.7 Prevention of Corrosion**

Delete portion of NOTE, “High performance coatings are specified for all outdoor applications because...and The National Association of Corrosion Engineers (NACE).”

Delete the following portion of article, “(any area subjected to chemical and/or abrasive action), and all outdoor installations, refer to Section 09960, High Performance Coatings,” and replace with bracketed portion, [The following areas are subjected to chemical and/or abrasive action. Refer to Section 09960, “High Performance Coatings.”]

#### **Article 2.5 Painting**

Bracket the beginning portion of article, [Enclosures of the following listed items...for requirement, for outdoors or harsh environments.]

### **Section 16050 Basic Electrical Materials and Methods**

#### **Add Submittal SD-06 Test Reports**

Test reports for the following shall be conducted in accordance with the paragraph entitled, “**Field Testing**,” of this section.

#### **Conductivity**

#### **Insulation Resistance**

#### **Phase-Rotation**

#### **Article 1.3 Prevention of Corrosion**

Delete portion of NOTE, “High performance coatings are specified for all...and The National Association of Corrosion Engineers (NACE).”

Delete the following portion of article, “(any area subjected to chemical and/or abrasive action), and all outdoor installations, refer to Section 09960, High Performance Coatings,” and replace with bracketed portion, [The following areas are subjected to chemical and/or abrasive action. Refer to Section 09960, “High Performance Coatings.”]

#### **Article 3.7 Panelboards**

Delete beginning NOTE, “NOTE: Ability to remove access covers...are available on the internet.”

#### **Article 3.8 Dry-Type Distribution Transformers**

Delete second sentence of NOTE, “In addition, access may be required to inspect this device while circuits are energized (for example, using infrared imaging).”

# **RCM Sections Update**

## **Division 16 – Electrical**

### **Article 3.10 Painting**

Add brackets and rewrite last sentence to read, “.be thoroughly cleaned and painted as specified in Section 09915, “Painting” [Section 09960, “High Performance Coatings.”]

### **Article 3.11 Field Testing**

Delete portion of article and rewrite to read, “Resistance between phase conductors and ground shall be no less than 25 megohms.”

### **Article 3.11 Field Testing**

Delete last two sentences, “Data shall have a cover letter/sheet clearly marked with the System name, Date, and the words “Final Test Data – Forward to the Systems Engineer/Condition Monitoring Office/Predictive Testing Group for inclusion in the Maintenance Database.”

## **Section 16124 Medium Voltage Cable**

**Johnson Space Center will evaluate change for RCM and submit to Kennedy and Board.**

### **References Institute of Electrical and Electronics Engineers (IEEE)**

Accept addition of IEEE Std 400

(1980) Guide for Making High-Direct-Voltage Tests on Power Cables Systems in the Field

Accept deletion of NEMA WC 5

(1992) Thermoplastic Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy

### **Article 2.4 Multiple-Conductor Shielded Cables**

Accept Spec replacement of NEMA WC 5 with IEEE Std 532 for Varnished cloth insulated - and Thermoplastic insulated -.

## **Section 16145 Standard Wiring System**

**Return to Board in November for final review after major maintenance is performed.**

## **Section 16225 Motors**

**Johnson will review and submit to Kennedy and Board after maintenance is performed.**

# **RCM Sections Update**

## **Division 16 – Electrical**

### **Section 16275 Transformers**

#### **Article 1.4 Qualification Testing**

Accept change to paragraph within article, “insulation power factor (Doble) tests, insulation oil tests, and dielectric tests. For oil-filled units manufacturer shall certify that the oil contains no PCB’s and shall affix a label to that effect on the transformer tank and on each oil drum containing the insulating oil.”

#### **Article 2.2 Factory Finish**

Delete NOTE at beginning of article, “NOTE: For all outdoor applications and all indoor...and The National Association of Corrosion Engineers (NACE).”

Delete the following portion of article, “(any area subjected to chemical and/or abrasive action), and all outdoor installations, refer to Section 09960, High Performance Coatings,” and replace with bracketed portion, [In areas of harsh environments subjected to chemical and/or abrasive action, refer to Section 09960, “High Performance Coatings.”]

#### **Article 3.2.4 Acceptance**

Delete portion of paragraph, “Reports shall have a cover letter/sheet clearly marked with the System name, Date, and the words “Final Test Reports – Forward to the Systems Engineer/Condition Monitoring Office/Predictive Testing Group for inclusion in the Maintenance Database.”

### **Section 16276 Medium Voltage Transformers**

No comments or recommendations stated. Article corrections acceptable.

### **Section 16285 Medium Voltage Power Factor Correction**

No comments or recommendations stated. Article corrections acceptable.

### **Section 16345 Motor Control**

No comments or recommendations stated. Article corrections acceptable.

### **Section 16286 Overcurrent Protective Devices**

No comments or recommendations stated. Article corrections acceptable.

### **Section 16325 Load-Break Switches**

No comments or recommendations stated. Article corrections acceptable.

## **RCM Sections Update**

### **Division 16 – Electrical**

#### **Section 16326      Air-Break Switches**

No comments or recommendations stated. Article corrections acceptable.

#### **Section 16327      Oil Switches**

No comments or recommendations stated. Article corrections acceptable.

#### **Section 16328      Load Break SF6 Gas Switches**

No comments or recommendations stated. Article corrections acceptable.

#### **Section 16365      Primary Unit Substation**

No comments or recommendations stated. Article corrections acceptable.

#### **Section 16366      Secondary Unit Substation**

No comments or recommendations stated. Article corrections acceptable.

#### **Section 16445      Switch Gear Assemblies**

No comments or recommendations stated. Article corrections acceptable.