ATTACHMENT D

Calculation E-218, Revision 1

"Ampacity Verification of Cables within Raceways
Wrapped with Appendix R Fire Protection Barrier"

ENTERGY — CALCULATION COVER PAGE ENGINEERING DEPARTMENT RIVER BEND STATION	CALC. NO. - REV. ADDENDUM E-218 Rev. 1 ATTACHMENT NO.: (as required) JBI NO.: PAGE 1 OF 34
TITLE: Ampacity Verification of Cables Within Raceways Wrapped with Appendix R Fire Protection Barrier	SUPERSEDES: E-218 Rev 0 E-218 Add A, Add B, Add C, Add D SUPPLEMENTS: NA

CALCULATION STATUS: ☒ APPROVED ☐ PENDING ☐ CANCELED

SYSTEM NO.: Various | MARK NO.: Various

CLASSIFICATION: ☒ SAFETY RELATED | NON-SAFETY RELATED: ☐ QAPA ☐ NON-QAPA

PURPOSE / SCOPE / OBJECTIVE:

See Pages 5 and 6

CONCLUSIONS:

See page 28

SOFTWARE USED FOR CALCULATION: ☒ YES ☐ NO SDDF #: 6229.400-704-002A

Manufacturer: General Physics Name PDMS, *Plant Data Management System* Version/Release No. 10.80.00

CONFIRMATIONS REQUIRED: ☐ YES ☒ NO | CONFIRMATION COMPLETE: ☐ YES ☐ NO ☒ N/A

KEYWORDS: Cable Ampacity, Derating Factors, Fire Wrap, Thermolag

EOI REVIEW: [signature] 1175 9/29/97

REVIEW & APPROVAL

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ENTERGY

CALCULATION TITLE PAGE
ENGINEERING DEPARTMENT

1. GSU CALCULATION NUMBER: E-218, Rev. 1

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2. CALCULATION TITLE: Ampacity Verification of Cables Within Raceways Wrapped with Appendix R Fire Protection Barrier

3. SUPERSEDES: E-218, Rev. 0
SUPPLEMENTS:

4. OBJECTIVE OF CALCULATION: To determine the protected ampacity of power cables in raceways enclosed by Thermo-Lag fire barrier systems.

5. CALCULATION METHOD / ASSUMPTIONS: See Sections 3 and 4.

KCN 9/26/97

6. SOURCES OF DATA/EQUATIONS (REFERENCES): See Section 5.

7. CONCLUSIONS: See Section 6.

8. REASON FOR REVISION (IF APPLICABLE):
(1) New methodology is used for cables in random lay tray.
(2) PDMS is used to perform all ampacity calculations.

9. RELATED DOCUMENTS:
1. G13.18.14.0-178
2. ER 96-0537
3. ER 96-0537-CN01

10. Q-CLASS
✓ 1 - NUCLEAR SAFETY RELATED
___ 2
___ 3
QAPA ? Y___ N X

11. PREPARER:
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14. DATA REQUIRING CONFIRMATION:
~~Issuance of Criterion 240.201A, Rev.2~~
Closeout of MR 91-0075
KCN 9/26/97
DATA CONFIRMED BY: KCN DATE

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(CALCULATION TITLE)(Optional)

REVISION HISTORY

Revision No.	Paragraph No.	Description of Change
Rev 1		Complete Revision

ENTERGY

CALCULATION
ENGINEERING DEPARTMENT
RIVER BEND STATION

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APPLICABLE DOCUMENTS

I. APPLICABLE CODES, STANDARDS, & REFERENCES (NON-RBS):

See sections 5.2 and 5.3 (Pages 26 and 27)

II. RBS REFERENCES:

See section 5.1 (Page 26)

III. AFFECTED DOCUMENTS:

DOC. NO.	REV. NO.	DOCUMENT TITLE	AFFECT (Superseded, Revised, Initiated, etc.)	CHANGE DOC.
ER96-0537	0	PDMS Equipment Load ID and Equipment Load Data Update	Issue	N/A
ER96-0537 CN01	0	PDMS Equipment Load ID and Equipment Load Data Update	Issue	N/A
ER96-0537 CN02	0	PDMS Equipment Load ID and Equipment Load Data Update	Issue	N/A
CR96-0455		Evaluation of Cable Jacket/Insulation damage due to Thermolag Fire Wrap	issue	N/A

1. OBJECTIVE

The objective of this calculation is to provide the methodology, acceptance criteria and results verification for the calculation of ampacity of cables in raceways wrapped with Thermo-Lag (T-L) 330-1. The ampacity calculation for each cable is performed by the Plant Data Management System (PDMS, References 5.1.7 and 5.1.8) using data identified in this calculation and in other referenced documents.

A number of major differences in Thermo-Lag wrap status occurred between this E-218 revision and Revision 0 and its addenda. These major differences are shown in the following table (Reference 5.1.4).

Table 1
Wrap Status Major Differences

Raceway	Revision 0	Revision 1
1CC003OD	1-hour wrap	No wrap
1CC003OD1	No wrap	1-hour wrap
1CC004OA	1-hour wrap	No wrap
1CC019BB2	3-hour wrap	No wrap
1CC059RB	3-hour wrap	Raceway doesn't exist
1CC070BC	No wrap	3-hour wrap
1CC070BD	No wrap	3-hour wrap
1CC127NE	3-hour wrap	No wrap
1CC160RA1	No wrap	3-hour wrap
1CC600NA6	1-hour wrap	No wrap
1CC600RC2	3-hour wrap	No wrap
1CC843BB	No wrap	1-hour wrap
1CK200R	3-hour wrap	Raceway doesn't exist
1CK501BC1,2,3	3-hour wrap	No wrap
1CK801BA1	3-hour wrap	No wrap
1CK920NU	3-hour wrap	No wrap
1CK921NA	3-hour wrap	No wrap
1TC204R	No wrap	1-hour wrap
1TC205R	No wrap	1-hour wrap
1TK203R	No wrap	1-hour wrap
1TK512N	3-hour wrap	No wrap

2. SCOPE

Except as noted below, all cables, Class 1E and non-1E, that are contained within a T-L 330-1 wrapped raceway are included in the scope of the PDMS ampacity calculation.

1. Instrumentation Cables - RBS instrumentation cables (those with Service Code = X from Reference 5.1.9) operate at 50 Volts or less, generally transmitting low level, under 1 Amp, information (Reference 5.1.10, pg. 2). Industry standard process instrumentation operating current is 20 milliamps (Reference 5.3.5, Sections 3.2 and 3.3.1). It is standard industry practice to exclude instrumentation cables from ampacity consideration. Based on this, Service Code = X cables are automatically excluded from ampacity calculation by PDMS.

2. 700 Series and 900 Series Control Cables - A review of PDMS (Reference 5.1.8) was conducted to determine if Service Code = C cables should be included in the wrapped raceway ampacity calculation. The results of the review indicated that ampacity calculations by PDMS shall be performed for all Service Code = C cables except 700 and 900 series cables. These cables are automatically excluded from ampacity calculation by PDMS.

   700 series cables are used exclusively for alarm circuits. 900 series cables are used exclusively for computer circuits (i.e. digital or analog inputs and outputs). Both the alarm and computer circuits are powered from electronic isolator cards which are capable of delivering only a very low level current in the milliamp range. Alarm circuits operate at 125 VDC; computer circuits operate at 48 VDC (Reference 5.1.13).

3. Intermittent Duty Cables - PDMS contains a load data field that defines the load equipment as continuous duty, C, or intermittent, I. The C/I field entry in PDMS is documented in ER 96-0537 (Reference 5.1.2). Cables for intermittent loads are excluded from ampacity calculation by PDMS.

All wrapped raceway configurations are included in the scope of the ampacity calculation by PDMS. The different configurations are described in Reference 5.1.1 and the ampacity derating factors for each configuration are provided in Section 4.2.5 for cables in tray and Section 4.3.4 for cables in conduit.

3. ASSUMPTIONS

3.1 For conservatism, if the as-built conduit routing configuration is unknown, a Conduit Grouping Correction Factor, CGDF, of 0.86 (the value for the number of horizontal versus vertical configuration of conduits equal to 6/1) is assumed.

3.2 Ampacity values for single conductor cable types NGR-15, 16 and 30 in Table 4-1 are for triplexed cables. Triplexing of single conductor cables for 3-phase circuits reflects typical RBS cable installation in tray or conduit (Reference 5.1.5, pg. 7).

4. METHODOLOGY

In general, the ampacity of cable in raceway is calculated by multiplying the nominal cable ampacity, I_{nom}, by each of the applicable (based on configuration and environment) ampacity correction factors. I_{nom} is the ampacity based on the construction of the cable (i.e. conductor size, insulation type and temperature rating, diameter, etc.) as given in applicable standards such as IPCEA or NEC. In PDMS, calculated cable ampacity is called Derated Cable Ampacity, DCA.

For cables in raceway enclosed or wrapped by a fire barrier, ampacity is called protected ampacity, $I_{protected}$. Protected ampacity equals I_{nom} times all applicable correction factors such as conductor and ambient temperature, conduit grouping, number of conductors in conduit, tray covers, etc. and the fire barrier ampacity correction factor, ACF (taken from References 5.1.1 and 5.2.2). In PDMS, ACF is called the Wrap Status Derating Factor, WSDF. The applicable ACF is dependent upon the type of T-L / raceway configuration in PDMS. The basis for the T-L / raceway configuration is Reference 5.1.4.

Tables 4-1 and 4-2 provide the nominal cable ampacity for various 5kV and 600V cable types used at RBS. Table 4-2 also provides the conductor AC resistance which is used for calculation of ampacity of cables in Service Code K or C tray only. The tables were developed by review of PDMS data (Reference 5.1.8) and they include all cable types contained within T-L raceways (except for 700 and 900 series "C" cables). The nominal ampacity and resistance data for each cable type in Table 4-1 and 4-2 is in PDMS and can be viewed as follows:

- Screen - Reference Selects, DT = CT, CT Details (3)
- Printed - Ad-Hoc Reports, SEL00021, RPT00013

Table 4-1 provides the nominal ampacity, I_{nom}, for cables installed in tray or conduit with Service Code H (i.e. 5kV power). All values are from Reference 5.3.4, rubber insulated, 8kV cable ampacities in air (i.e. tray) and conduit for 40°C ambient and 90°C conductor temperature. Values for NGR-15, 16 and 30 are for triplexed cables per assumption 3.2.

Table 4-1
Nominal Ampacity, I_{nom}
Power Cable in Service Code H (5kV) Tray and Conduit

Cable Mark Number	Cable Size, Construction, Material	Ampacity in Tray (Amps)	Ampacity in Conduit (Amps)
NGR-11	4/0 3/C Cu	321	280
NGR-12	4/0 Tri Cu	342	287
NGR-13	350 Tri Cu	467	387
NGR-14	500 3/C Cu	536	458
NGR-15	500 1/C Cu	578	473
NGR-16	750 1/C Cu	728	579
NGR-30	1000 1/C Cu	847	657

Table 4-2 provides the nominal ampacity, I_{nom}, and conductor AC resistance, R_{ac}, for cables installed in tray with Service Code L (i.e. 600V power) and for cables installed in conduit with Service Code C, K or L (i.e. 600V power and control). Notes and references are as follows:

- Cables in Tray with Service Code C or K - The nominal ampacity for these cables is not obtained from Table 4-2. Instead, nominal ampacity is computed from cable heat generation in accordance with Stolpe's method defined in Section 4.2.3 using Table 4-2 cable R_{ac} values. The Stolpe-computed nominal ampacity is not permitted to exceed 80% of the Table 4-2 value per Equation 4.2.3d.

- Nominal Ampacity - General - All values, except those shaded, are from Reference 5.3.4, rubber insulated, 1kV cable ampacities in air (i.e. tray) and conduit for 40°C ambient and 90°C conductor temperature. Shaded values are from Reference 5.3.2, Table 310-16 with ambient temperature corrected to 40°C from 30°C (CADF = 0.91 from Table 310-16). Values for NGP-42, 50 and 99 are for triplexed cables since Reference 5.3.4 values are not available for single conductor cable in conduit and triplexing reflects typical installation in tray or conduit (Reference 5.1.3, pg. 20A).

- Nominal Ampacity - Not 3 Conductors - The values for jacketed cables with 2 conductors or with more than 3 conductors are derived as follows:

  - #8 AWG in Tray - Values are derived from the equation in Reference 5.3.3, Section 2.5 using PDMS cable diameters (Reference 5.1.8).

- #10, #12, #14, #16 AWG in Tray - Values for 2-conductor cables are the same as those for 3-conductor cables. Listed values for cables with more than 3 conductors have been modified based on Table 4.3.2 which is applicable not only for more than 3 conductors in conduit but also for more than 3 conductors in a jacketed cable. For example, a 5-conductor #14 AWG cable has a tray nominal ampacity of 18 Amps which is 0.8 (from Table 4.3.2) times 23 Amps, the nominal ampacity of a 3-conductor #14 AWG cable. This method agrees with Reference 5.3.2, Article 318-11 for multiconductor cable in tray. Note that the nominal ampacity for cables in Service Code C and K tray is actually calculated using Stolpe's method defined in Section 4.2.3. The Stolpe-computed nominal ampacity is not permitted to exceed 80% of the Table 4-2 value per Equation 4.2.3d.

- #8, #10, #12, #14, #16 AWG in Conduit - Values for 2-conductor cables and for cables with more than 3 conductors are the same as those for 3-conductor cables. Refer to the discussion in Section 4.3.2 for more than 3 conductors in a conduit.

- Resistance - All values, except for #14 and #16 AWG, are for 600V cable in tray from Reference 5.1.11 (the reference does not include cables smaller than #12 AWG). The #14 and #16 AWG values are from Reference 5.3.2, Chapter 9, Table 8, corrected to 90°C from 75°C. Copper conductor values are for coated conductors since they are higher than uncoated values and values for 2-conductor cables are the 3-conductor values since they are higher than single-conductor values (i.e. more conservative for ampacity calculations). Values for NGP-42, 50 and 99 are for triplexed cables.

Table 4-2
Nominal Ampacity, I_{nom} & AC Resistance, R_{ac}
Cable in Service Code C, K or L (600V) Tray and Conduit

Cable Mark Number	Cable Size, Construction, Material	Ampacity in Tray (Amps)	Ampacity in Conduit (Amps)	R_{ac} (Ohms per 1000 ft)
NGP-72	#16 4/C Cu	13.0	16.4	5.5463
NGP-75	#16 18/C Cu	8.2	16.4	5.5463
NGP-01	#14 2/C Cu	23	23	3.4179
NGP-02	#14 3/C Cu	23	23	3.4179
NGP-03	#14 5/C Cu	18	23	3.4179
NGP-04	#14 7/C Cu	16	23	3.4179
NGP-06	#14 12/C Cu	11.5	23	3.4179
NGP-10	#12 2/C Cu	27	27	2.2154
NGP-11	#12 2/C Cu	27	27	2.2154
NGP-12	#12 3/C Cu	27	27	2.2154
NGP-58	#12 3/C Cu	27	27	2.2154
NGP-13	#12 5/C Cu	22	27	2.2154
NGP-36	#12 5/C Cu	22	27	2.2154
NGP-14	#12 7/C Cu	19	27	2.2154
NGP-15	#12 9/C Cu	19	27	2.2154
NGP-16	#12 12/C Cu	13.5	27	2.2154
NGP-22	#10 2/C Cu	36	36	1.3911
NGP-57	#10 3/C Cu	36	36	1.3911
NGP-24	#10 4/C Cu	29	36	1.3911
NGP-26	#10 7/C Cu	25.5	36	1.3911
NGP-27	#10 12/C Cu	18	36	1.3911
NGP-28	#8 2/C Cu	64	50	0.8750
NGP-56	#8 3/C Cu	59	50	0.8750
NGP-30	#8 4/C Cu	52	50	0.8750
NGP-32	#8 7/C Cu	49	50	0.8750
NGP-33	#8 12/C Cu	48	50	0.8750
NGP-55	#6 Tri Cu	89	75	0.5505
NGP-54	#4 Tri Cu	117	97	0.3463
NGP-53	#2 Tri Cu	158	130	0.2178
NGP-52	2/0 Tri Al	193	159	0.1721
NGP-99	4/0 1/C Cu	335	278	0.0682
NGP-49	250 Tri Cu	374	317	0.0584
NGP-51	250 Tri Al	292	249	0.0918
NGP-59	350 Tri Al	364	303	0.0657

Table 4-2
Nominal Ampacity, I_{nom} & AC Resistance, R_{ac}
Cable in Service Code C, K or L (600V) Tray and Conduit

Cable Mark Number	Cable Size, Construction, Material	Ampacity in Tray (Amps)	Ampacity in Conduit (Amps)	R_{ac} (Ohms per 1000 ft)
NGP-50	500 1/C Al	458	381	0.0461
NGP-42	750 1/C Cu	747	598	0.0211

Subsequent sections define data for nominal ampacity, ampacity correction factors, equations for calculations, and ampacity acceptance criteria as follows:

- Section 4.1 - ampacity correction factors applicable to cables in tray or conduit.
- Section 4.2 - ampacity correction factors applicable to cables in tray only.
- Section 4.3 - ampacity correction factors applicable to cables in conduit only.
- Section 4.4 - ampacity correction factors applicable to cables in junction boxes and miscellaneous equipment. Data for miscellaneous equipment is provided for information only. Only junction box data is used by PDMS.
- Section 4.5 - equations for computation of protected ampacity and maximum cable load current.
- Section 4.6 - ampacity acceptance criteria.

4.1 Conductor and Ambient Temperature Correction Factor (CADF)

The nominal cable ampacities provided in Tables 4-1 and 4-2 and those calculated in Section 4.2.3 are for cable with a 90°C insulation rating in an ambient temperature of 40°C. However, certain areas and associated fire zones within the plant (containment, main steam line areas, etc.) may have higher ambient temperatures. The maximum normal ambient temperature in a particular plant area is documented in Reference 5.1.6 and cross-referenced to fire zone in ER 96-0521 (Reference 5.1.4). Ambient temperature data for each fire zone can be viewed in PDMS as follows:

- Screen - Detail Selects, CT = FZ, Wrap/Temp Data
- Printed - Ad-Hoc Reports, SEL00011

If the maximum normal ambient temperature is above 40°C, or if the insulation temperature rating of a cable is not 90°C, an ampacity correction factor shall be applied. The correction factor, CADF, is calculated by Equation 5 of Reference 5.3.4, Section II.B as follows and the effects of the terms DELTA TD' and DELTA TD are negligible:

$$\text{CADF (for Copper)} = \sqrt{\frac{T_c' - T_a'}{T_c - T_a} * \frac{234.5 + T_c}{234.5 + T_c'}}$$

$$\text{CADF (for Aluminum)} = \sqrt{\frac{T_c' - T_a'}{T_c - T_a} * \frac{228.1 + T_c}{228.1 + T_c'}}$$

where: T_c' = new conductor temperature (°C)
T_a' = new ambient temperature (°C)
T_c = conductor temperature for which ampacity table was derived (°C)
T_a = ambient temperature for which ampacity table was derived (°C)

Since all of the scheduled cables at RBS were purchased with 90°C insulation temperature rating in a 40°C ambient (Reference 5.1.10, pg. 8), Equation 5a of Reference 5.3.4 may be used. Equation 5a reduces to the following and CADF becomes:

$$\text{CADF} = \sqrt{\frac{T_c - T_a'}{T_c - T_a}} = \sqrt{\frac{90 - T_a'}{50}}$$

The calculation of CADF is performed by PDMS. The calculated value can be viewed as follows:

- Screen - Detail Selects, CT = CA, DR Analysis
- Printed - Ad-Hoc Reports, SEL00021, RPT00013

4.2 Nominal Ampacity and Ampacity Correction Factors for Cables in Tray

4.2.1 Nominal Ampacity - Cables With Maintained Spacing

This section applies to RBS cables installed in tray with Service Code H or L only. Table 4-1 provides the nominal ampacity, $\mathbf{I_{nom}}$, for cables installed in tray with Service Code H (i.e. 5kV power tray) and Table 4-2 provides the nominal ampacity, $\mathbf{I_{nom}}$, for cables installed in tray with Service Code L (i.e. 600V power tray).

4.2.2 Multiple Cables in Tray with Maintained Spacing Correction Factor (MCDF)

MCDF is a multiplying factor applied to cable ampacity when there are two or more cables in a tray and cables are installed with spacing of from 1/4 to 1 cable diameter (Reference 5.3.4, Section II.D). Multiple cables installed in tray with Service Code H or L, where cables are installed one layer deep only, shall be derated using the correction factor shown in the table below (References 5.1.9, pg. 4-9, 4-10; 5.1.10, pg. 10, 11; 5.3.4, Section II.D).

Table 4.2.2
Multiple Cables in Tray Correction Factor
Cables in Service Code H or L Tray

Number of Cables Horizontally	MCDF
1	1.00
2	0.93
3	0.87
4	0.84
5	0.83
6 or More	0.82

The determination of MCDF is performed by PDMS for cables in tray with maintained spacing. The applicable value can be viewed as follows:

- Screen - Detail Selects, CT = CA, DR Analysis
- Printed - Detail Selects, CT = CA, DR Analysis, f10

4.2.3 Nominal Ampacity - Cables Without Maintained Spacing

This section applies to RBS cables installed in tray with Service Code K or C only.

Based on Reference 5.3.1, Stolpe's analytical model for heat transfer from a tightly packed cable tray, cable ampacity is determined on the basis of uniform heat generation over the cross-section of the tray. The allowable heat intensity, Q, per unit area (watts/ft/in^2) is a function of the total heat generated by the cables in the tray and the cable mass width and depth as shown in Equation 7 of Reference 5.3.1, pg. 964. Cable mass depth is easily converted to percent fill which is the ratio of the cable cross-sectional area (i.e. the sum of the cross-sectional areas of all cables in a tray) to the useful cross-sectional area of the tray (Reference 5.3.1, pg. 964). Tray percent fill is based on all cables in the tray, power and control, and no credit is taken for load diversity.

Figure 4 of Reference 5.3.1 shows the Q versus percent fill curves for cables with 60°C, 75°C and 90°C insulation ratings in 3-inch deep tray, all operating in a 40°C ambient. The curves indicate that as tray percent fill (i.e. depth of cables in the tray) increases for a given cable temperature, allowable heat intensity is reduced. Using a straight-line approximation, the equation for any one of the Figure 4 curves can be written as:

$$\log(Q) = m * \log(\%Fill) + \log(b)$$

$$\log(Q) = \log(\%Fill)^m + \log(b)$$

$$\log(Q) = \log[(\%Fill)^m * b)]$$

Therefore, the general equation for allowable heat intensity is:

$$Q = b * (\%Fill)^m$$

where: %Fill is in percent - not a decimal value

Using any two points on one of the curves from Figure 4 of Reference 5.3.1, the constants m and b can be found. Since RBS cables are rated 90°C and the Service Code K tray fill design maximum is 40% and the Service Code C tray fill design maximum is 50% (References 5.1.9, pg. 4-8, 4-9 and 5.1.10, pg. 9, 10), points at 10% and 40% on the 90°C curve are chosen.

$$\text{for } \%Fill = 10,\ Q = 24 \text{ watts/ft/in}^2$$

$$\text{for } \%Fill = 40,\ Q = 4.7 \text{ watts/ft/in}^2$$

The two simultaneous equations to solve for m and b are:

$$24 = b * 10^m \quad \text{and} \quad 4.7 = b * 40^m$$

Multiplying the second equation by $24 \div 4.7 = 5.1064$ yields:

$$24 = 5.1064 * b * 40^m$$

Since the left side of both equations are now equal, the simultaneous equations can be solved:

$$b * 10^m = 5.1064 * b * 40^m$$

$$10^m = 5.1064 * 40^m$$

Taking the log of both sides of the equation:

$$m * \log(10) = \log(5.1064) + (m * \log(40))$$

$$m = 0.70811 + 1.60206m$$

$$-0.60206m = 0.70811$$

$$m = -1.176$$

Substituting m = -1.176 into the equation $24 = b * 10^{m}$:

$$24 = b * 10^{-1.176}$$

$$24 = 0.06668b$$

$$b = 359.92 \cong 360$$

The equation for allowable heat intensity Q for a tightly packed tray containing 90°C cables in a 40°C ambient becomes:

$$Q = 360 * (\%Fill)^{-1.176} \text{ watts/ft/in}^2 \qquad \text{Eq. 4.2.3a}$$

This equation is suitable only for cables in tray with a usable (i.e. inside) depth of 3-inches (Reference 5.3.1, pg. 964). Based on a review of PDMS data (Reference 5.1.8), all RBS tray types have 3-inch inside depth except tray type DJL-01, which does not comprise any T-L wrapped trays (Reference 5.1.4).

The %Fill value calculated by PDMS is based on the %Fill Limit for the particular tray Service Code (e.g. if %Fill Limit = 40% and the %Fill = 40% based on tray and cable dimensions, then the PDMS result is 100%). Therefore:

$$\%Fill = \%Fill_{PDMS} * \%Fill\ Limit / 100$$

If tray depth is not equal to 3 inches, the above equation must be modified with a h / 3 factor to become:

$$\%Fill = \left(\frac{\%Fill_{PDMS} * \%FillLimit * h}{3 * 100} \right)$$

For Service Code K tray, %Fill Limit = 40% and for Service Code C, %Fill Limit = 50% (References 5.1.9, pg. 4-8, 4-9 and 5.1.10, pg. 9, 10). Therefore, for Service Code K and C tray, Equation 4.2.3a becomes:

K Tray $\quad Q = 360 * (\%Fill_{PDMS} * 0.4)^{-1.176}$ watts/ft/in^2 $\qquad$ Eq. 4.2.3b-K

C Tray $\quad Q = 360 * (\%Fill_{PDMS} * 0.5)^{-1.176}$ watts/ft/in^2 $\qquad$ Eq. 4.2.3b-C

Once Q is calculated for the tray, the nominal cable ampacity, I_{nom}, for each cable in the tray is then computed from Reference 5.3.1, Equation 9 as:

$$I_{nom} = \frac{D}{2}\sqrt{\frac{Q\pi}{nR}}$$

where: n = number of conductors in cable
Q = heat generated per unit area of the tray (watts/ft/in^2)
D = cable diameter (inches)
R = a.c. resistance of conductor at 90°C (Ohms/ft)

This equation can be modified to account for R values which are typically published in Ohms/1000 feet and then simplified to combine constants as follows:

$$I_{nom} = \frac{D}{2}\sqrt{\frac{1000 * Q * \pi}{nR_{ac}}}$$

$$I_{nom} = 28.02 * D * \sqrt{\frac{Q}{nR_{ac}}} \qquad \text{Eq. 4.2.3c}$$

where: R_{ac} = a.c. resistance of conductor at 90°C (Ohms/1000 ft)

Values for cable diameter, D, are already contained in PDMS (Reference 5.1.8) and values for R_{ac} are provided in Table 4-2.

If the calculated I_{nom} for any cable is greater than 80% of the cable ampacity in open air (i.e. tray), $I_{open\ air}$, then I_{nom} must be adjusted as follows (Reference 5.3.3, Section 2.2). $I_{open\ air}$ ampacities are the ampacity in tray values shown in Table 4-2.

$$I_{nom} = I_{open\ air} * 0.8 \qquad \text{Eq. 4.2.3d}$$

4.2.4 Tray Cover Correction Factor (TCDF)

The ampacity of cables in tray continuously covered with solid unventilated covers for more than 6 feet shall be corrected by the TCDF shown below (References 5.3.1, pg. 969 and 5.3.2, Articles 318-11 and 318-13):

$$TCDF = 0.95$$

4.2.5 Ampacity Derating Factor (ADF) and Ampacity Correction Factor (ACF or WSDF)

The following table provides the ADF and ACF values for cables in fire wrapped tray. The table provides the fire barrier configuration cross reference between the PDMS Wrap Status (WS) and the Reference 5.1.1 analyzed configuration.

Table 4.2.5
T-L 330-1 Derating and Correction Factors
Cables in Tray

Tray Barrier Configuration / Rating	Ref. 5.1.1 Config.	PDMS WS	Notes	ADF	ACF WSDF
Standard Single / 1-hour	Table 5.1	STD (TR) [1]	1	0.32	0.68
Standard 2-Stack / 1-hour Power and Control	Table 5.1	n/a	2	0.38	0.62
Standard Single / 3-hour	Table 5.2	STD (TR) [3]		0.44	0.56
Unique / 1-hour PT-1, Tunnel "F"	Table 5.3 U1 1-hour	UNIQUE-1 (TR) [1]		0.32	0.68
Unique / 1-hour PT-1, Tunnel "G"	Table 5.3 U2 1-hour	UNIQUE-2 (TR) [1]		0.32	0.68
Unique / 3-hour C-16, Trays 1TL012B and 1TC048B	Table 5.3 U3b 3-hour	UNIQUE-3 (TR) [3]		0.35	0.65
Unique / 1-hour C-16, Trays 1TL012B and 1TC048B	Table 5.3 U3b 1-hour	UNIQUE-3 (TR) [1]	3	0.32	0.68
Unique / 3-hour C-16, Trays 1TK001B & 2B and 1TC047B	Table 5.3 U3a 3-hour	UNIQUE-6 (TR) [3]		0.32	0.68
Unique / 1-hour C-16, Trays 1TK001B & 2B and 1TC047B	Table 5.3 U3a 1-hour	UNIQUE-6 (TR) [1]	4	0.32	0.68

Notes:

1. This configuration was analyzed in Reference 5.1.1 by similarity to the 1-hour tray ADF value from TU (Reference 5.2.1).
2. This configuration does not currently exist at RBS. Values are provided for future reference if needed.
3. This is the revised value (i.e. the upgrade value) for the UNIQUE-3 (TR) [3] enclosure after implementation of MR 91-0075.
4. This is the revised value (i.e. the upgrade value) for the UNIQUE-6 (TR) [3] enclosure after implementation of MR 91-0075.

The WSDF values are contained in PDMS. They are the values used by PDMS to compute cable ampacity and they can be viewed as follows:

- Screen - Reference Selects, DT = WS
- Printed - Reference Selects, DT = WS, mark all, f7

4.3 Nominal Ampacity and Ampacity Correction Factors for Cables in Conduit

4.3.1 Nominal Ampacity

Table 4-1 provides the nominal ampacity, I_{nom}, for cables installed in conduit with Service Code H (i.e. 5kV power). Table 4-2 provides the nominal ampacity, I_{nom}, for cables installed in conduit with Service Code K, L or C (i.e. 600V power or control).

4.3.2 Multiple Conductor Correction Factor (MCDF)

Where the number of current-carrying conductors in a conduit exceeds three, ampacity shall be corrected by the MCDF shown in the table below (Reference 5.3.2, Article 310-15, Note 8(a) of Notes to Ampacity Tables of 0 to 2000 Volts).

Table 4.3.2
Multiple Conductor Correction Factor
More Than 3 Conductors in Conduit or
More Than 3 Conductors in a Jacketed Cable ***

Number of Current-Carrying Conductors *	MCDF **
1-3	1.00
4 - 6	0.80
7 - 9	0.70
10 - 20	0.50
21 - 30	0.45
31 - 40	0.40
More than 40	0.35

* Reference 5.3.2, Article 310-15, Notes 10 and 11 of Notes to Ampacity Tables of 0 to 2000 Volts may be used to determine which conductors may be excluded as current-carrying.

** These factors include no diversity in the conductor loading, which is conservative. Reference 5.3.2, Article 310-15, Note 8(a)(FPN) of Notes to Ampacity Tables of 0 to 2000 Volts, provides direction to correction factors for a 50% diversity in conductor loading. These factors may be used if no more than 50% of the conductors in the conduit are energized.

*** The MCDF factor is also applicable for more than 3 conductors in a jacketed cable in tray. The factor is already incorporated in the Table 4-2 nominal ampacity values as discussed in Section 4.

PDMS handles the MCDF derating by counting the total number of conductors in the conduit and applying the appropriate factor from Table 4.3.2. Cable types with more than 3 conductors are not derated twice when they are routed in a conduit with other cables. For example, if a conduit has 10, 5-conductor, #14 AWG cables, each cable is not derated to 18 Amps (0.8 times 23 Amps, the nominal ampacity of a 3-conductor #14 AWG cable) and then derated again by 0.35 to account for the total number of conductors in the conduit (more than 40). Instead, PDMS simply applies the 0.35 factor since it counts the total number of conductors in the conduit. Therefore for this example, the derated ampacity is 23 x 0.35 = 8 Amps, not 23 x 0.8 x 0.35 = 6 Amps. This method agrees with Reference 5.3.2, Notes to Ampacity Tables of 0 to 2000 Volts, Article 310-15 for multiconductor cable in conduit.

The determination of MCDF is performed by PDMS for cables in conduit. The applicable value can be viewed as follows:

- Screen - Detail Selects, CT = CA, DR Analysis
- Printed - Detail Selects, CT = CA, DR Analysis, f10 OR Ad Hoc Reports, SEL00036

4.3.3 Conduit Grouping Correction Factor (CGDF)

Derating of cable ampacity is required if two or more conduits are routed together and the spacing between conduit surfaces is not greater than the conduit diameter and is not less than 1/4 of the conduit diameter. If the as-built routing configuration is known, CGDF shall be selected from the table below (Reference 5.3.4, Section II.E).

Table 4.3.3
Conduit Grouping Correction Factors

Number of Conduits Vertically	Number of Conduits Horizontally					
	1	2	3	4	5	6
1	1.00	0.94	0.91	0.88	0.87	0.86
2	0.92	0.87	0.84	0.81	0.80	0.79
3	0.85	0.81	0.78	0.76	0.75	0.74
4	0.82	0.78	0.74	0.73	0.72	0.72
5	0.80	0.76	0.72	0.71	0.70	0.70
6	0.79	0.75	0.71	0.70	0.69	0.68

If the as-built conduit routing configuration is unknown, the conduit grouping correction factor, CGDF, as specified in assumption 3.1 shall be assumed as 0.86, the value for the number of horizontal/vertical conduits equal to 6/1.

The CGDF default value of 0.86 has been applied to all cables in conduit by PDMS. The value can be viewed as follows:

- Screen - Detail Selects, CT = CA, DR Analysis
- Printed - Detail Selects, CT = CA, DR Analysis, f10 OR Ad Hoc Reports, SEL00036

4.3.4 Ampacity Derating Factor (ADF) and Ampacity Correction Factor (ACF or WSDF)

The following table provides the ADF and ACF values for cables in fire wrapped conduit. The table provides the fire barrier configuration cross reference between the PDMS Wrap Status (WS) and the Reference 5.1.1 analyzed configuration.

Some of the heating of cables in conduit is caused by induced current flow in the raceway which is caused by a non-zero net or unbalanced current flow through the conductors enclosed by the conduit (References 5.2.1 and 5.2.2). This effect, called the Inductive Current Heating Effect (IHE), is apparent during ampacity testing of cables in fire wrapped conduit using the proposed IEEE P848 test procedure when a 3-conductor test specimen cable is energized from a single-phase source (Reference 5.2.1). From testing and analyses performed to date, IHE appears to produce conservative ampacity derating results, although the effect is difficult to quantify. Therefore, the NRC has imposed a T-L 330-1 ACF penalty to ensure conservatism (References 5.2.1). This penalty is included in the table ADF and ACF values.

Table 4.3.4
T-L 330-1 Derating and Correction Factors
Cables in Conduit

Conduit Barrier Configuration / Rating	Ref. 5.1.1 Config.	PDMS WS	Notes	ADF	ACF WSDF
Standard / 1-hour	Table 5.2	STD (CO) [1]		0.21	0.79
Standard / 3-hour	Table 5.2	STD (CO) [3]		0.21	0.79
Unique / 1-hour PT-1 / Tunnel "E"	n/a	STD&UNIQ-1 (CO) [1]	1	0.38	0.62
Unique / 1-hour PT-1 / 1CK200RB	n/a	STD&UNIQ-2 (CO) [1]	2	0.38	0.62
Unique / 1-hour PT-1 / 1CC270NH1 & NH7	n/a	UNIQUE-1&2 (CO) [1]	3	0.38	0.62
Unique / 1-hour PT-1 / Tunnel "F"	Table 5.3 U1 1-hour	UNIQUE-1 (CO) [1]	4	0.38	0.62
Unique / 1-hour PT-1 / Tunnel "G"	Table 5.3 U2 1-hour	UNIQUE-2 (CO) [1]	5	0.38	0.62

Notes:

1. This configuration was not analyzed in Reference 5.1.1. The enclosure contains two conduits which contain control, alarm and power cables for two MOVs only. Since the MOV power cables are energized intermittently, cable heat generation is very low. For conservatism, the ADF and ACF for the worst case 1-hour conduit wrap configuration was assigned (i.e. UNIQUE-2(CO) [1]).
2. For part of its length this conduit is wrapped with standard conduit half rounds equivalent to STD(CO) [1]. For the remainder of its length, the conduit is within the UNIQUE-2(CO) [1] enclosure. The ADF for UNIQUE-2(CO) [1] was assigned since it is the higher ADF value.
3. These conduits run in both the U1 (Tunnel "F") and U2 (Tunnel "G") enclosures.
4. Reference 5.1.1 computed three ADF values for this configuration - 21, 38 and 32%. For conservatism and simplicity of application, the highest ADF is used.
5. Reference 5.1.1 computed two ADF values for this configuration - 38 and 32%. For conservatism and simplicity of application, the highest ADF is used.

The WSDF values are contained in PDMS. They are the values used by PDMS to compute cable ampacity and they can be viewed as follows:

- Screen - Reference Selects, DT = WS
- Printed - Reference Selects, DT = WS, mark all, f7

4.4 Junction Boxes and Miscellaneous Equipment ADF and ACF (WSDF)

The following table provides the ADF and ACF values for fire wrapped junction boxes. It also includes ADF and ACF values for equipment that has a valid Wrap Status in PDMS. None of these configurations were analyzed in Reference 5.1.1. PDMS does not use any of these values for calculation of cable ampacity.

The ADF values for wrapped junction boxes are determined by the ADF values of the wrapped conduits that enter the junction box. This is because, on a per unit length basis, a wrapped conduit has a higher power to surface area ratio than a junction box, i.e. there is more heat generated per unit surface area of the conduit than the junction box. Since the ADF value increases with increasing power to area ratio, the ADF value for the wrapped conduit is higher than that of the wrapped junction box.

The ADF and ACF values for equipment are provided only to complete the Derating Factor field in the PDMS Wrap Status table and to eliminate PDMS derating analysis problems which would appear if the derating factor (i.e. the ACF value) were left blank or zero. For this reason, all equipment ADF values are defined as zero; therefore ACF = 1.0. ADF and ACF values for equipment are not applicable and should not be used for analysis or evaluation of equipment performance or operating temperature. Instead, equipment rated current and temperature should be used.

Table 4.4
T-L 330-1 Derating and Correction Factors
Junction Boxes and Miscellaneous Equipment

Miscellaneous Barrier Configuration / Rating	PDMS WS	Notes	ADF	ACF WSDF
Misc. Equipment / 1-hour	STD (EQ) [1]		0.00	1.00
HVAC Equipment / 3-hour	STD (EQ) [3]		0.00	1.00
Standard J-Box / 1-hour 1*JB0274 & Others	STD (JB) [1]	1	0.21	0.79
Standard J-Box / 3-hour 1*JB0024 & Others	STD (JB) [3]	2	0.21	0.79
Unique J-Box / 1-hour 1*JB2072	UNIQUE-1 (JB) [1]	1	0.21	0.79
Unique Equipment / 3-hour 1JCB*RAK1	UNIQUE-4 (EQ) [3]		0.00	1.00
Unique Equipment / 1-hour 1SWP*MOV055A & 511A	UNIQUE-5 (EQ) [1]		0.00	1.00

Notes:

1. ADF and ACF values for junction boxes wrapped with 1-hour T-L are the same as the values for standard 1-hour wrapped conduit (see STD(CO) [1] in Table 4.3.4).
2. ADF and ACF values for junction boxes wrapped with 3-hour T-L are the same as the values for standard 3-hour wrapped conduit (see STD(CO) [3] in Table 4.3.4).

The WSDF values are contained in PDMS. They can be viewed as follows:

- Screen - Reference Selects, DT = WS
- Printed - Reference Selects, DT = WS, mark all, f7

4.5 Derated Cable Ampacity and Maximum Load Current Equations

The ampacity calculations are performed by PDMS using the equations in the following sections. Results can be viewed as follows:

- Screen - Detail Selects, CT = CA, DR Analysis
- Printed - Detail Selects, CT = CA, DR Analysis, f10 OR Ad Hoc Reports, SEL00036

PDMS calculates cable ampacity in every wrapped raceway of the cable route. For the on-screen DR Analysis results, the minimum calculated cable ampacity for the cable route is visible in the bottom right corner of the screen as MinDCA.

4.5.1 Protected Ampacity of Cable in Tray with Maintained Spacing

The following equation applies to the computation of protected ampacity of 5kV and 600V concentric stranded rubber or thermoplastic-insulated cable in tray where cables are installed with maintained spacing. The equation applies to cables in trays with Service Code H or L only. I_{nom} is obtained from Tables 4-1 and 4-2.

$$I_{protected} \text{ or } DCA = I_{nom} * MCDF * TCDF * CADF * WSDF$$

4.5.2 Protected Ampacity of Cable in Tray without Maintained Spacing

The following equation applies to the computation of protected ampacity of 600V concentric stranded rubber or thermoplastic-insulated cable in tray where cables are installed without maintained spacing. The equation applies to cables in trays with Service Code K or C only. I_{nom} is calculated using the equations from Section 4.2.3 and shall not exceed 80% of the tray ampacity of Table 4-2.

$$I_{protected} \text{ or } DCA = I_{nom} * TCDF * CADF * WSDF$$

4.5.3 Protected Ampacity of Cable in Conduit

The following equation applies to the computation of the protected ampacity of 5kV and 600V concentric stranded rubber or thermoplastic-insulated cable installed in exposed conduit. I_{nom} is obtained from Tables 4-1 and 4-2.

$$I_{protected} \text{ or } DCA = I_{nom} * CGDF * MCDF * CADF * WSDF$$

4.5.4 Maximum Load Current

The maximum load current is calculated as follows:

$$Load = FLA * LF$$

The maximum load current is the full load current rating of a load, FLA, multiplied by a load factor, LF, or cable sizing factor which is determined by the overload requirements of the load being served. FLA is the current required to operate the equipment at specified or standard test conditions (Reference 5.3.6, rated current, machine or apparatus). FLA and LF in PDMS are associated with an equipment number, not a cable number. FLA and LF in PDMS are documented in ER 96-0537 (Reference 5.1.2) and subsequent ER Change Notices.

5. REFERENCES

5.1 River Bend Station Documents

5.1.1 G13.18.14.0-178, Rev. 1, *Ampacity Derating Factors for Thermo-Lag 330-1 Enclosures*

5.1.2 ER 96-0537, Rev. 0, *PDMS Equipment Load ID and Equipment Load Data Update*, ER Change Notice ERCN01 and ER Change Notice ERCN02

5.1.3 Calculation E-137, Rev. 6 through Addendum E, *600V Cable Sizing*

5.1.4 ER 96-0521, Rev. 1, *PDMS Essential Raceway Data Update*

5.1.5 Calculation E-167, Rev. 2 through Addendum B, *5KV Power Cable Sizing - Ampacity and Minimum Length*

5.1.6 215.150, Rev. 4, *RBS Environmental Design Criteria*

5.1.7 6229.400-704-002A, *Plant Data Management System User Manual*

5.1.8 PDMS, *Plant Data Management System*

5.1.9 241.100, May 26, 1978, *Cable Schedule Information System As Used On River Bend Station - Units 1 And 2*

5.1.10 241.200, Rev. 3, *Electrical Design Criteria for Insulated Wire and Cable As Used On River Bend Station, Units 1 And 2*

5.1.11 7241.200-508-001A, *Cable Impedances for 90°C Conductor Temperature*

5.1.12 Criterion 240.201A, Rev. 2, *Entergy Operations, Inc. River Bend Station, 10CFR50, Appendix R Separation Analysis*

5.1.13 ESK-2V, Rev. 4, *Instruction Drawing - Typical Digital Isolator Circuits*

5.1.14 MR 91-0075, *Upgrade Appendix R Thermo-Lag Enclosures*

5.2 NRC Documents

5.2.1 Safety Evaluation Report, June 14, 1995, *Ampacity Issues Related to Thermo-Lag Fire Barriers, Texas Utilities Electric Company, Comanche Peak Steam Electric Station, Unit 2, Docket No. 50-446*

5.2.2 NRC Letter, October 18, 1994, From Ronaldo Jenkins to Alex Marion of Nuclear Energy Institute

5.3 Industry Standards & Papers

5.3.1 IEEE Transaction Paper 70 TP 557-PWR, *Ampacities for Cables in Randomly filled Trays*, J. Stolpe, 1970 (Filed as SDDF 6240.201-795-002A)

5.3.2 NFPA 70, 1996, National Electrical Code

5.3.3 ICEA Standards Publication No. P-54-440 (Third Edition), NEMA Standards Publication No. WC51-1986, *Ampacities of Cables in Open-Top Cable Trays*

5.3.4 IEEE/IPCEA Standard S-135/P-46-426, Third Printing 1984, *Power Cable Ampacities: Volume I - Copper Conductors* and *Volume II - Aluminum Conductors*

5.3.5 ANSI/ISA-S50.1-1982, *Compatibility of Analog Signals for Electronic Industrial Process Instruments*

5.3.6 ANSI/IEEE Std. 100-1984, *IEEE Standard Dictionary of Electrical and Electronic Terms*

6. CONCLUSIONS

6.1 Ampacity Results

6.1.1 Ampacity Calculation Results - General

All cables met the ampacity acceptance criteria of Section 4.6. The majority of cable ampacities were deemed acceptable via Iteration #1. Those cable ampacities deemed acceptable via Iteration #2 or #3 are listed in Table 6.1 for H, K and L voltage level cables and Table 6.2 for C voltage level cables. Applicable notes are provided.

In some cases, cable ampacities were less than the load or circuit rated current, i.e. DCA < FLA. For these cases, cable segments enclosed by T-L may have been subjected to temperatures higher than their rated insulation temperature. These cases are noted in Table 6.1 with notation similar to: DCA = 0.97 FLA. Additional evaluation is required to determine the effect of increased operating temperatures on the T-L portion of these cables.

Note that results listed in Table 6.1 are for the As-Built (AB) configuration unless otherwise noted as Engineering Partial (EP) or Engineering Released (ER).

Table 6.1
H, K and L Cables

Cable No., Status Load ID	FLA (Amp)	Load (Amp)	Raceway FA/FZ	Iteration #1 DCA w/T-L (Amps)	Iteration #2 DCA w/o T-L (Amps)	Iteration #3 Iteration #2 DCA ÷ FLA	DCA Accept (Y/N)	Temperature Effects for Iteration #1 DCA < FLA	Notes
1CSHCOH300 1E22*S001G1C	401.0	401.0	1CH003OA C-6/Z-1	402.5	N/A	N/A	Y	N/A	1
1HVCBBK200 1HVC*CH1B	39.1	43.0	1CK920BB C-17/Z-1	41.5	N/A	N/A	Y	N/A	2
1HVCBBK201 1HVC*CH1B	39.1	43.0	1CK920BB C-17/Z-1	41.5	N/A	N/A	Y	N/A	2
1HVRNOK001 1HVR*UC5	62.0	71.3	1CK939OA AB-7/Z-1	77.3	N/A	N/A	Y	N/A	3
1HVYNNK037 1HVY-CH13	36.1	39.7	1CK600NA1 PT-1/Z-1	31.0	50.0	N/A	Y	DCA = 0.86 FLA	4
1HVYNNK044 1HVY-UH15	12.0	13.2	1CK600NM1 PT-1/Z-1	10.5	17.3	N/A	Y	DCA = 0.88 FLA	5
1HVYNNK045 1HVY-UH16	12.0	13.2	1CK600NM1 PT-1/Z-1	10.5	17.3	N/A	Y	DCA = 0.88 FLA	5
1HVYNNK046 1HVY-UH17	12.0	13.2	1CK600NM1 PT-1/Z-1	10.5	17.3	N/A	Y	DCA = 0.88 FLA	5
1HVYNNK047 1HVY-UH18	12.0	13.2	1CK600NM1 PT-1/Z-1	10.5	17.3	N/A	Y	DCA = 0.88 FLA	5
1HVCBBL200 1HVC*ACU1B	87.0	108.8	1TL012B C-16/Z-1	102.9	N/A	N/A	Y	N/A	6
1HVCBBL201 1HVC*ACU2B	85.0	106.3	1TL012B C-16/Z-1	102.9	N/A	N/A	Y	N/A	7
1HVKBBL200 1HVK*CHL1B	137.0	171.3	1TL012B C-16/Z-1	135.6	N/A	N/A	Y	N/A	8
1HVKBBL201 1HVK*CHL1B	137.0	171.3	1TL012B C-16/Z-1	155.6	N/A	N/A	Y	N/A	8

Table 6.1
H, K and L Cables

Cable No., Status Load ID	FLA (Amp)	Load (Amp)	Raceway FA/FZ	Iteration #1 DCA w/T-L (Amps)	Iteration #2 DCA w/o T-L (Amps)	Iteration #3 Iteration #2 DCA ÷ FLA	DCA Accept (Y/N)	Temperature Effects for Iteration #1 DCA < FLA	Notes
1HVKDBL200 1HVK*CHL1D	137.0	171.3	1TL012B C-16/Z-1	155.6	N/A	N/A	Y	N/A	8
1HVKDBL201 1HVK*CHL1D	137.0	171.3	1TL012B C-16/Z-1	155.6	N/A	N/A	Y	N/A	8

Notes to Table 6.1

1 1CSHCOH300 - This cable is the 1E22*S001G1C Division III EDG output. Load = 401 = FLA. Also, from a walkdown performed 1/21/97 (see Attachment 6), conduit 1CH003OA is not run with 5 other conduits to define CGDF = 0.86; it is run with 3 other conduits to define CGDF = 0.88. Based on this, DCA = 402.5 > Load. DCA is acceptable.

2 1HVCBBK200, 201 - From a walkdown performed 1/21/97 (see Attachment 6), conduit 1CK920BB has sufficient spacing from other conduits that the default CGDF = 0.86 is not applicable; no other conduits are within 1 conduit diameter, therefore as-built CGDF = 1.0. Therefore, as-built DCA = 35.7 ÷ 0.86 = 41.5 and DCA = 1.06 FLA. DCA is considered acceptable for this non-motor load (transformer with primarily resistive load) since it allows for a continuous 6% overvoltage.

3 1HVRNOK001 - CR 95-0887 (installed, but not yet as-built) changed motor to 50 HP with FLA = 62 and LF = 1.15. There are 5 other cables in 1CK939OA (17 wires total) which imposes a MCDF = 0.5. Of the 5 cables, 4 are 3-phase power for MOVs 1E22*F004, F015, F012 and F023 (intermittent load); the fifth is a control power cable for 1HVR*UC5 heater. The MOV wires are non-current-carrying conductors since they are rarely energized. Therefore, with 12 fewer current-carrying conductors, actual MCDF = 0.8. Therefore, DCA = 77.3 > Load = 71.3. DCA is acceptable without T-L removal.

4 1HVYNNK037 - The actual ADF value computed for this conduit in Ref. 5.1.1 was less than 21% which is the ADF value used for standard 1-hour wrapped conduit per Table 4.3.4. Therefore using an ACF of 0.79, the computed DCA = 39.5 = 1.09 FLA = 0.99 Load. This is considered acceptable without T-L removal.

5 1HVYNNK44, 45, 46, 47 - <u>T-L removal is recommended for 1CK600NM1</u>. These cables should be evaluated for excessive aging.

6 1HVCBBL200 - For the existing T-L raceway 1TL012B enclosure, DCA = 1.18 FLA. This is considered acceptable for this motor load since it allows for a continuous 10% undervoltage condition coincident with a 8% overload condition. The T-L enclosure is being modified per MR 91-0075 and the new WSDF will be 0.68 versus the existing 0.65. Therefore, DCA = 1.24 FLA.

7 1HVCBBL201 - For the existing T-L raceway 1TL012B enclosure, DCA = 1.21 FLA. This is considered acceptable for this motor load since it allows for a continuous 10% undervoltage condition coincident with a 11% overload condition. The T-L enclosure is being modified per MR 91-0075 and the new WSDF will be 0.68 versus the existing 0.65. Therefore, DCA = 1.27 FLA.

8 1HVKBBL200, 201, 1HVKDBL200, 201 - For the existing T-L raceway 1TL012B enclosure, DCA = 1.14 FLA. This is considered acceptable for these motor loads since it allows for a continuous 10% undervoltage condition coincident with a 4% overload condition. The T-L enclosure is being modified per MR 91-0075 and the new WSDF will be 0.68 versus the existing 0.65. Therefore, DCA = 1.19 FLA.

Table 6.2
C Cables

Cable No. Status Load ID	FLA (Amp)	Load (Amp)	Raceway FA/FZ T-L WSDF	Iteration #1 DCA w/T-L (Amps)	Iteration #2 DCA w/o T-L (Amps)	Iteration #3 Iteration #2 DCA ÷ FLA	DCA Accept (Y/N)	Temperature Effects for Iteration #1 DCA ÷ FLA	Note
1CMSNRC507	12.8	14.1	1TC500R RC-4/Z-4	7.1	13.7	N/A	Y	DCA = 0.55 FLA	1,5
			1TC504R RC-3/Z-4	13.0	23.2	N/A	Y	N/A	
1CMSNRC508	10.0	11.0	1TC500R RC-4/Z-4	7.1	13.7	N/A	Y	DCA = 0.71 FLA	1,5
1CMSNRC509	10.0	11.0	1TC500R RC-4/Z-4	7.1	13.7	N/A	Y	DCA = 0.71 FLA	1,5
1CMSNRC510	13.2	14.5	1TC500R RC-4/Z-4	7.1	13.7	N/A	Y	DCA = 0.54 FLA	1,5
			1TC504R RC-3/Z-4	13.0	23.2	N/A	Y	DCA = 0.98 FLA	
1HVKBBC514 1HVK*CHL1B-PNLC1	10.4	11.4	1TC048B C-16/Z-1	11.4	N/A	N/A	Y	N/A	2
1HVKDBC507 1HVK*CHL1D-PNLC1	10.4	11.4	1TC048B C-16/Z-1	11.4	N/A	N/A	Y	N/A	2
1RMSNBC525 1RMS*REY13B	10.0	12.5	1TC048B C-16/Z-1	11.4	N/A	N/A	Y	N/A	3
1RMSNRC502 1RMS*RE5A-1	22.0	27.5	1TC600R FB-1/Z-1	24.0	N/A	N/A	Y	N/A	4
			1TC601R FB-1/Z-2	25.6	N/A	N/A	Y		

Notes to Table 6.2

1 1CMSNRC507, 8, 9, 10 - All of these cables are 120VAC power to heat trace circuits for containment atmosphere sample lines. The heat tracing is designed to maintain the lines at a temperature above 212°F (around 250°F) so that condensation will not form in the lines before or during accidents. Since normal containment temperature is between 90°F and 120°F, it is estimated that the heat tracing is energized frequently (i.e. it cannot be considered intermittent).

2 1HVKBBC514, 1HVKDBC507 - For the existing T-L raceway 1TC048B enclosure, cable DCA = 1.1 FLA. This is considered acceptable for these loads.

3 1RMSNBC525 - DCA = 1.14 FLA and the load is partly motor load. This is considered acceptable for this load since it allows for a continuous 10% under or overvoltage condition coincident with a 4% overload condition. The T-L enclosure is being modified per MR 91-0075 and the new WSDF will be 0.68 versus the existing 0.65. Therefore, DCA = 1.19 FLA

4 1RMSNRC502 - DCA = 1.09 FLA and 1.16 FLA, respectively. This is considered acceptable for this load since it allows for a continuous 10% under or overvoltage condition coincident with a 0% or 6% overload condition. T-L may be removed from trays 1TC600R and 1TC601R, although it is not considered necessary.

5 The factors in the Iteration #1, Iteration #2, Iteration #3 and Temperature Effects for Iteration #1 columns reflect that the ambient temperature for the raceway in the specified zone is 32.2°C. A modified CADF using 32.2°C is used to increase DCA by a factor of 1.075. See Attachment 8 for further analysis.

6.1.2 PDMS Ampacity Calculation Results - All

Results of all ampacity calculations are shown in the following attachments.

Attachment 1 - Service Code H cables
Attachment 2 - Service Code K cables
Attachment 3 - Service Code L cables
Attachment 4 - Service Code C cables

The attachments show the derating factors associated with each cable ampacity computation. They also show the computed ampacity margin in Amps, M(Amps), as:

$$M(Amps) = DCA - LoadAmp$$

Ampacity results and associated data may also be viewed in PDMS as follows.

Individual cable

- Screen - Detail Selects, CT = CA, DR Analysis
- Printed - Detail Selects, CT = CA, DR Analysis, f10

Report of all wrapped cables

- Printed - Ad Hoc Reports, SEL00036

6.2 Summary of Recommendations

6.2.1 Thermo-Lag Removal

Remove T-L from the following raceways in the specified Fire Zone / Area. None of these raceways are required to be protected with fire barrier material per the Appendix R Safe Shutdown Analysis (Reference 5.1.12).

Table 6.2.1

Raceway	Fire Zone
1CK600NA1	PT-1/Z-1
1CK600NM1	PT-1/Z-1
1TC500R	RC-4/Z-4 *
1TC504R	RC-3/Z-4 *

* T-L has been removed from this raceway.

6.2.2 Cables Requiring Temperature Effects Evaluation

The following cables from Tables 6.1 and 6.2 should be evaluated to determine temperature effects on cable insulation since the cables may have been subjected to load currents greater than the T-L ampacities. It is noted that only the T-L portion of a cable's routing is involved rather than the entire cable route.

Table 6.2.2

Cable Number	Raceway	FA/FZ
1HVYNNK037	1CK600NA1	PT-1/Z-1
1HVYNNK044	1CK600NM1	PT-1/Z-1
1HVYNNK045	1CK600NM1	PT-1/Z-1
1HVYNNK046	1CK600NM1	PT-1/Z-1
1HVYNNK047	1CK600NM1	PT-1/Z-1

CR 97-0455 has been written to address the temperature effects on the cable insulation.

Entergy Operations, Inc.
River Bend Station
Plant Data Management System (PDMS)

Derated Cables (Under Rated) - Wrapped RWs Only

RPT00026

SEL00036

E-218, Rev 1, Attachment 1

Requested By : GUEST
Requested On : September 29, 1997 - 19:11:07
File Name : gu1i2t0939.cus
6.4/05 (ris.us5/02)

River Bend Station
Plant Data Management System (DMS)
Derated Cables (Under Rated) - Wrapped RWs Only

Entergy Operations, Inc.

Date: 09/29/97
Page: 1

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHCOH300 DCD: <BLANK>																
1E22*S001G1C	MR 96-0020	401.000	1.000	1CH0030A		STD(CO) [1]	0.000	0.000	579.00	1.000	0.790	1.000	0.860	1.000	393.373	-7.627
1E22*S001G1C	MR 96-0020	401.000	1.000	1CH0030A	MR 88-0220-F	STD(CO) [1]	0.000	0.000	579.00	1.000	0.790	1.000	0.860	1.000	393.373	-7.627
Cable: 1CSHCOH301 DCD: <BLANK>																
1E22*C001		196.875	1.250	1TH0020		STD(TR) [1]	22.000	0.000	578.00	1.000	0.680	1.000	1.000	1.000	393.040	196.165
1E22*C001		196.875	1.250	1CH0020B		STD(CO) [1]	0.000	0.000	473.00	1.000	0.790	1.000	0.860	1.000	321.356	124.481
Cable: 1CSHCOH306 DCD: <BLANK>																
1E22*C001		196.875	1.250	1CH0010B		STD(CO) [1]	0.000	0.000	473.00	1.000	0.790	1.000	0.860	1.000	321.356	124.481
Cable: 1ENSARH308 DCD: <BLANK>																
1EJS*X3A-HV		73.150	1.100	1TH200R		UNIQUE-1(TR) [1]	37.333	0.000	342.00	0.894	0.680	1.000	1.000	0.870	180.967	107.817
1EJS*X3A-HV		73.150	1.100	1TH201R		UNIQUE-2(TR) [1]	37.333	0.000	342.00	0.894	0.680	1.000	1.000	0.870	180.967	107.817
1EJS*X3A-HV		73.150	1.100	1TH202R		UNIQUE-2(TR) [1]	37.333	0.000	342.00	0.894	0.680	1.000	1.000	0.870	180.967	107.817
1EJS*X3A-HV		73.150	1.100	1TH204R		UNIQUE-2(TR) [1]	12.444	0.000	342.00	0.894	0.680	1.000	1.000	1.000	208.008	134.858
1EJS*X3A-HV		73.150	1.100	1TH205R		UNIQUE-2(TR) [1]	12.444	0.000	342.00	0.894	0.680	1.000	1.000	1.000	208.008	134.858
Cable: 1ENSBBH300 DCD: <BLANK>																
1EJS*X1B	MR 96-0020	156.860	1.100	1CH012BA		STD(CO) [1]	0.000	0.000	287.00	1.000	0.790	1.000	0.860	1.000	194.988	38.128
Cable: 1ENSBBH303 DCD: <BLANK>																
1EGS*EG1B		265.430	1.100	1CH052BA		STD(CO) [1]	0.000	0.000	473.00	0.894	0.790	1.000	0.860	1.000	287.430	22.000
Cable: 1ENSBBH304 DCD: <BLANK>																
1EGS*EG1B		265.430	1.100	1CH052BB		STD(CO) [1]	0.000	0.000	473.00	0.894	0.790	1.000	0.860	1.000	287.430	22.000
Cable: 1RDSBNH300 DCD: <BLANK>																
1C11-C001B		65.000	1.250	1TH223N		STD(TR) [1]	12.444	0.000	342.00	0.894	0.680	1.000	1.000	1.000	208.008	143.008
Cable: 1RHSBBH300 DCD: <BLANK>																
1E12*C002B		113.250	1.250	1CH800BB		STD(CO) [1]	0.000	0.000	287.00	0.894	0.790	1.000	0.860	1.000	174.402	61.152
1E12*C002B		113.250	1.250	1TH802B		STD(TR) [1]	24.889	0.000	342.00	0.894	0.680	1.000	1.000	0.930	193.447	80.197
1E12*C002B		113.250	1.250	1CH802BB		STD(CO) [1]	0.000	0.000	287.00	0.894	0.790	1.000	0.860	1.000	174.402	61.152
Cable: 1RHSCBH300 DCD: <BLANK>																
1E12*C002C		113.250	1.250	1CH800BA		STD(CO) [1]	0.000	0.000	287.00	0.894	0.790	1.000	0.860	1.000	174.402	61.152

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RHSCBH300 DCD: <BLANK>																
1E12*C002C		113.250	1.250	1TH802B		STD(TR) [1]	24.889	0.000	342.00	0.894	0.680	1.000	1.000	0.930	193.447	80.197
1E12*C002C		113.250	1.250	1CH802BA		STD(CO) [1]	0.000	0.000	287.00	0.894	0.790	1.000	0.860	1.000	174.402	61.152
Cable: 1SWPARH300 DCD: <BLANK>																
1SWP*P2A	MR 96-0020	75.875	1.250	1TH200R		UNIQUE-1(TR) [1]	37.333	0.000	342.00	0.894	0.680	1.000	1.000	0.870	180.967	105.092
1SWP*P2A	MR 96-0020	75.875	1.250	1TH201R		UNIQUE-2(TR) [1]	37.333	0.000	342.00	0.894	0.680	1.000	1.000	0.870	180.967	105.092
1SWP*P2A	MR 96-0020	75.875	1.250	1TH202R		UNIQUE-2(TR) [1]	37.333	0.000	342.00	0.894	0.680	1.000	1.000	0.870	180.967	105.092
1SWP*P2A	MR 96-0020	75.875	1.250	1TH203R		UNIQUE-2(TR) [1]	24.889	0.000	342.00	0.894	0.680	1.000	1.000	0.930	193.447	117.572
Cable: 1SWPCOH300 DCD: <BLANK>																
1SWP*P2C	MR 96-0020	75.875	1.250	1CH9580A2		STD(CO) [1]	0.000	0.000	473.00	0.894	0.790	1.000	0.860	1.000	287.430	211.555
1SWP*P2C	MR 96-0020	75.875	1.250	1CH9580A1		STD(CO) [3]	0.000	0.000	473.00	0.894	0.790	1.000	0.860	1.000	287.430	211.555
1SWP*P2C	MR 96-0020	75.875	1.250	1CH9580A		STD(CO) [3]	0.000	0.000	473.00	0.894	0.790	1.000	0.860	1.000	287.430	211.555

<END>

Entergy Operations, Inc.
River Bend Station
Plant Data Management System (PDMS)

Derated Cables (Under Rated) - Wrapped RWs Only

RPTU0026

SEL00036

E-218, Rev 1, Attachment 2

Requested By : GUEST
Requested On : September 29, 1997 - 19:06:05
File Name : gu1i2t0426.cus
6.4/05 (ris_us5/02)

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CPMARK008 DCD: <BLANK>																
1CPM*FN1A		3.250	1.250	1TK500R		STD(TR) [3]	12.540	18.395	21.60	1.000	0.560	1.000	1.000	1.000	12.096	8.846
1CPM*FN1A		3.250	1.250	1TK500R	MR 96-0020	STD(TR) [3]	12.540	18.395	21.60	1.000	0.560	1.000	1.000	1.000	12.096	8.846
1CPM*FN1A		3.250	1.250	1TK504R		STD(TR) [3]	7.800	32.151	21.60	1.000	0.560	1.000	1.000	1.000	12.096	8.846
1CPM*FN1A		3.250	1.250	1TK504R	MR 96-0020	STD(TR) [3]	7.800	32.151	21.60	1.000	0.560	1.000	1.000	1.000	12.096	8.846
1CPM*FN1A		3.250	1.250	1TK501R		STD(TR) [3]	3.911	72.415	21.60	1.000	0.560	1.000	1.000	1.000	12.096	8.846
1CPM*FN1A		3.250	1.250	1TK501R	MR 96-0020	STD(TR) [3]	3.911	72.415	21.60	1.000	0.560	1.000	1.000	1.000	12.096	8.846
Cable: 1CSHC0K001 DCD: <BLANK>																
1E22*S001ACP		1.750	1.250	1CK9090E2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	12.925
1E22*S001ACP		1.750	1.250	1CK9090E2	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	12.925
Cable: 1CSHNOK008 DCD: <BLANK>																
1E22*C003		9.500	1.250	1CK9390D		STD(CO) [1]	0.000	0.000	36.00	0.894	0.790	1.000	0.860	0.500	10.938	1.438
Cable: 1CSHNOK013 DCD: <BLANK>																
1E22*C001-HT		1.750	1.250	1CK9390D		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	6.454
Cable: 1CSHNOK015 DCD: <BLANK>																
1E22*S001DGH		22.500	1.250	1CK9090A8		STD(CO) [1]	0.000	0.000	75.00	1.000	0.790	1.000	0.860	0.700	35.668	13.168
1E22*S001DGH		22.500	1.250	1CK9090A8	MR 88-0220-F	STD(CO) [1]	0.000	0.000	75.00	1.000	0.790	1.000	0.860	0.700	35.668	13.168
Cable: 1CSHNOKG16 DCD: <BLANK>																
1E22*S001GSH		4.500	1.250	1CK9090A8		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	8.341
1E22*S001GSH		4.500	1.250	1CK9090A8	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	8.341
Cable: 1CSHNOK017 DCD: <BLANK>																
1E22*S001COP		2.250	1.250	1CK9090A8		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	10.591
1E22*S001COP		2.250	1.250	1CK9090A8	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	10.591
Cable: 1CSHNOK601 DCD: <BLANK>																
1E22*S001BAT	MR 96-0020	27.500	1.250	1CK9090A1		STD(CO) [1]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.450	39.745	12.245
1E22*S001BAT	MR 96-0020	27.500	1.250	1CK9090A1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.450	39.745	12.245
Cable: 1CSHNOK603 DCD: <BLANK>																
1*JB0224		6.250	1.250	1CK9090A1		STD(CO) [1]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	0.450	29.656	23.406

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOK603 DCD: <BLANK>																
1*JB0224		6.250	1.250	1CK9090A1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	0.450	29.656	23.406
Cable: 1CSHNOK605 DCD: <BLANK>																
1E22*S001CGR	MR 96-0020	62.500	1.250	1CK9090C		STD(CO) [1]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.700	181.196	118.696
1E22*S001CGR	MR 96-0020	62.500	1.250	1CK9090C		STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.700	181.196	118.696
1E22*S001CGR	MR 96-0020	62.500	1.250	1CK9090C	MR 88-0220-F	STD(CO) [1]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.700	181.196	118.696
1E22*S001CGR	MR 96-0020	62.500	1.250	1CK9090C	MR 88-0220-F	STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.700	181.196	118.696
Cable: 1CSHNOK607 DCD: <BLANK>																
1*JB0224		6.250	1.250	1CK9090C		STD(CO) [1]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	0.700	46.131	39.881
1*JB0224		6.250	1.250	1CK9090C		STD(CO) [3]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	0.700	46.131	39.881
1*JB0224		6.250	1.250	1CK9090C	MR 88-0220-F	STD(CO) [1]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	0.700	46.131	39.881
1*JB0224		6.250	1.250	1CK9090C	MR 88-0220-F	STD(CO) [3]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	0.700	46.131	39.881
Cable: 1CSHNOK608 DCD: <BLANK>																
1E22*S001BAT	MR 96-0020	27.500	1.250	1CK9090C		STD(CO) [1]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.700	61.825	34.325
1E22*S001BAT	MR 96-0020	27.500	1.250	1CK9090C		STD(CO) [3]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.700	61.825	34.325
1E22*S001BAT	MR 96-0020	27.500	1.250	1CK9090C	MR 88-0220-F	STD(CO) [1]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.700	61.825	34.325
1E22*S001BAT	MR 96-0020	27.500	1.250	1CK9090C	MR 88-0220-F	STD(CO) [3]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.700	61.825	34.325
Cable: 1DFMANK001 DCD: <BLANK>																
1DFM-P4A		3.250	1.250	1CK920NM		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	5.922
Cable: 1DFMANK009 DCD: <BLANK>																
1DFM-P8		4.250	1.250	1CK600NA1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.500	6.438	2.188
Cable: 1DFRFNK002 DCD: <BLANK>																
1DFR-P5F-3		3.250	1.250	1CK815NC2		STD(CO) [1]	0.000	0.000	36.00	0.894	0.790	1.000	0.860	0.800	17.501	14.251
Cable: 1DRSANK004 DCD: <BLANK>																
1DRS-UC1A-SL	MR 96-0020	53.750	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
1DRS-UC1A-SL	MR 96-0020	53.750	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
Cable: 1DRSANK004 DCD: MR 95-0021																
1DRS-UC1A-SL	MR 96-0020	53.750	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136

River Bend Station
Plant Data Management System (PDMS)
Derated Cables (Under Rated) - Wrapped RWs Only

Entergy Operations, Inc.

Date: 09/29/97
Page: 3

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DC2	M(Amps)
Cable: 1DRSANK004 DCD: MR 95-0021																
1DRS-UC1A-SL	MR 96-0020	53.750	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
Cable: 1DRSCNK004 DCD: <BLANK>																
1DRS-UC1C-SL	MR 96-0020	53.750	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
1DRS-UC1C-SL	MR 96-0020	53.750	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
Cable: 1DRSCNK004 DCD: MR 95-0021																
1DRS-UC1C-SL	MR 96-0020	53.750	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
1DRS-UC1C-SL	MR 96-0020	53.750	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
Cable: 1DRSENK004 DCD: MR 95-0021																
1DRS-UC1E-SL	MR 96-0020	53.750	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
1DRS-UC1E-SL	MR 96-0020	53.750	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	23.136
Cable: 1EGFCOK001 DCD: <BLANK>																
1EGF*P1C	MR 96-0020	6.000	1.250	1CK9090A1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	2.255
1EGF*P1C	MR 96-0020	6.000	1.250	1CK9090A1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	2.255
Cable: 1ENBBBK002 DCD: <BLANK>																
1ENB*INV01B-		37.625	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	154.40	1.000	0.680	1.000	1.000	1.000	104.992	67.367
Cable: 1FNRPNK008 DCD: <BLANK>																
1FNR-P09		9.500	1.250	1TK525N		STD(TR) [3]	34.572	5.582	59.76	1.000	0.560	1.000	1.000	1.000	33.467	23.967
1FNR-P09		9.500	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	59.76	1.000	0.560	1.000	1.000	1.000	33.467	23.967
Cable: 1FNRPNK010 DCD: <BLANK>																
1FNR-P10		9.500	1.250	1TK525N		STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	39.121
1FNR-P10		9.500	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	39.121
Cable: 1FNRPNK012 DCD: <BLANK>																
1FNR-P11		9.500	1.250	1TK525N		STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	39.121
1FNR-P11		9.500	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	39.121
Cable: 1HVCBBK002 DCD: <BLANK>																
1HVC*FN2B	MR 96-0020	50.000	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	118.01	1.000	0.680	1.000	1.000	1.000	80.248	30.249
1HVC*FN2B	MR 96-0020	50.000	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	126.40	1.000	0.680	1.000	1.000	1.000	85.952	35.952

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCBBK003 DCD: <BLANK>																
1HVC*FN1B		42.500	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	118.01	1.000	0.680	1.000	1.000	1.000	80.248	37.749
1HVC*FN1B		42.500	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	126.40	1.000	0.680	1.000	1.000	1.000	85.952	43.452
Cable: 1HVCBBK004 DCD: <BLANK>																
1HVC*ACU3B	MR 96-0020	9.500	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	28.80	1.000	0.680	1.000	1.000	1.000	19.584	10.084
1HVC*ACU3B	MR 96-0020	9.500	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	28.80	1.000	0.680	1.000	1.000	1.000	19.584	10.084
Cable: 1HVCBBK006 DCD: <BLANK>																
1HVC*FN3B	MR 96-0020	3.250	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	21.29	1.000	0.680	1.000	1.000	1.000	14.480	11.230
1HVC*FN3B	MR 96-0020	3.250	1.250	1CK0038J		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	15.094
Cable: 1HVCBBK007 DCD: <BLANK>																
1HVC*FN8B		1.250	1.250	1TKL02B		UNIQUE-6(TR) [3]	20.514	10.312	21.29	1.000	0.680	1.000	1.000	1.000	14.480	13.230
1HVC*FN8B		1.250	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	21.60	1.000	0.680	1.000	1.000	1.000	14.688	13.438
Cable: 1HVCBBK008 DCD: <BLANK>																
1HVC*FLT3BH		34.625	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	81.23	1.000	0.680	1.000	1.000	1.000	55.236	20.611
1HVC*FLT3BH		34.625	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	93.60	1.000	0.680	1.000	1.000	1.000	63.648	29.023
Cable: 1HVCBBK200 DCD: <BLANK>																
1HVC*CH1B	MR 96-0020	43.010	1.100	1CK9208B		STD(CO) [3]	0.000	0.000	75.00	1.000	0.790	1.000	0.860	0.700	35.668	-7.341
Cable: 1HVCBBK201 DCD: <BLANK>																
1HVC*CH1B	MR 96-0020	43.010	1.100	1CK9208B		STD(CO) [3]	0.000	0.000	75.00	1.000	0.790	1.000	0.860	0.700	35.668	-7.341
Cable: 1HVCEBK001 DCD: <BLANK>																
1HVC*FN3E		3.250	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	21.29	1.000	0.680	1.000	1.000	1.000	14.480	11.230
1HVC*FN3E		3.250	1.250	1CK0038K		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	15.094
Cable: 1HVFARK001 DCD: <BLANK>																
1HVF*FN7A	MR 96-0020	1.250	1.250	1TL600R		STD(TR) [3]	56.222	0.000	27.00	0.894	0.560	1.000	1.000	0.820	11.090	9.840
1HVF*FN7A	MR 96-0020	1.250	1.250	1TL601R		STD(TR) [3]	39.944	0.000	27.00	0.894	0.560	1.000	1.000	0.820	11.090	9.840
1HVF*FN7A	MR 96-0020	1.250	1.250	1TL602R		STD(TR) [3]	29.111	0.000	27.00	0.965	0.560	1.000	1.000	0.840	12.274	11.024
Cable: 1HVFNNK002 DCD: <BLANK>																
1HVF-UC3		6.000	1.250	1CK602NC		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	5.485

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVKBBK002 DCD: <BLANK>																
1HVK*CHL1BPL		3.250	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	21.29	1.000	0.680	1.000	1.000	1.000	14.480	11.230
1HVK*CHL1BPL		3.250	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	21.60	1.000	0.680	1.000	1.000	1.000	14.688	11.438
Cable: 1HVKBBK006 DCD: <BLANK>																
1HVK*P1B	MR 96-0020	81.250	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	154.40	1.000	0.680	1.000	1.000	1.000	104.992	23.742
1HVK*P1B	MR 96-0020	81.250	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	154.40	1.000	0.680	1.000	1.000	1.000	104.992	23.742
Cable: 1HVKBNK001 DCD: <BLANK>																
1HVK*CHL1B-P		4.250	1.250	1CK920NK		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	10.425
Cable: 1HVKDBK001 DCD: <BLANK>																
1HVK*CHL1DPL		3.250	1.250	1TK002B		UNIQUE-5(TR) [3]	20.514	10.312	21.29	1.000	0.680	1.000	1.000	1.000	14.480	11.230
1HVK*CHL1DPL		3.250	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	21.60	1.000	0.680	1.000	1.000	1.000	14.688	11.438
Cable: 1HVKDBK003 DCD: <BLANK>																
1HVK*P1D	MR 96-0020	81.250	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	154.40	1.000	0.680	1.000	1.000	1.000	104.992	23.742
1HVK*P1D	MR 96-0020	81.250	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	154.40	1.000	0.680	1.000	1.000	1.000	104.992	23.742
Cable: 1HVPCOK001 DCD: <BLANK>																
1HVP*FN6C	MR 96-0020	2.250	1.250	1CK9090A1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	6.005
1HVP*FN6C	MR 96-0020	2.250	1.250	1CK9090A1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	6.005
Cable: 1HVRANK002 DCD: <BLANK>																
1HVR-FN1A		4.250	1.250	1TK525N		STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	4.523
1HVR-FN1A		4.250	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	4.523
Cable: 1HVRBNK001 DCD: <BLANK>																
1HVR-FN1B		4.250	1.250	1TK525N		STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	4.523
1HVR-FN1B		4.250	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	4.523
Cable: 1HVRNOK001 DCD: <BLANK>																
1HVR*UC5	MR 96-0020	71.300	1.150	1CK9390A		STD(CO) [1]	0.000	0.000	159.00	0.894	0.790	1.000	0.860	0.500	48.310	-22.990
Cable: 1HVRNOK001 DCD: CR 95-0887																
1HVR*UC5	MR 96-0020	71.300	1.150	1CK9390A		STD(CO) [1]	0.000	0.000	159.00	0.894	0.790	1.000	0.860	0.500	48.310	-22.990

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVYARK001 DCD: <BLANK>																
1HVY*FN1A	MR 96-0020	13.750	1.250	1TK203R		STD(TR) [1]	41.341	4.523	29.43	0.894	0.680	1.000	1.000	1.000	17.900	4.150
Cable: 1HVYARK002 DCD: <BLANK>																
1HVY*FN2A	MR 96-0020	6.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	14.10	0.894	0.680	1.000	1.000	1.000	8.578	2.578
Cable: 1HVYCRK001 DCD: <BLANK>																
1HVY*FN1C		13.750	1.250	1CK0010F		STD(CO) [1]	0.000	0.000	97.00	0.894	0.790	1.000	0.860	0.450	26.525	12.775
1HVY*FN1C		13.750	1.250	1CK0010F1		STD(CO) [1]	0.000	0.000	97.00	0.894	0.790	1.000	0.860	0.450	26.525	12.775
1HVY*FN1C		13.750	1.250	1CK0010F2		STD(CO) [1]	0.000	0.000	97.00	0.894	0.790	1.000	0.860	0.450	26.525	12.775
Cable: 1HVYCRK002 DCD: <BLANK>																
1HVY*FN2C		6.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	14.10	0.894	0.680	1.000	1.000	1.000	8.578	2.578
Cable: 1HVYNNK011 DCD: <BLANK>																
1HVY-FN9		4.250	1.250	1CK600NA1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.500	6.438	2.188
Cable: 1HVYNNK012 DCD: <BLANK>																
1HVY-FN10		4.250	1.250	1CK600NA1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.500	6.438	2.188
1HVY-FN10		4.250	1.250	1CK600NA6		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.800	10.301	6.051
1HVY-FN10		4.250	1.250	1CK600NA7		UNIQUE-2(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.800	10.301	6.051
Cable: 1HVYNNK037 DCD: <BLANK>																
1HVY-CH13		39.710	1.100	1CK600NA1		UNIQUE-1(CO) [1]	0.000	0.000	130.00	0.894	0.620	1.000	0.860	0.500	30.999	-8.711
1HVY-CH13		39.710	1.100	1CK600NA9		UNIQUE-1(CO) [1]	0.000	0.000	130.00	0.894	0.620	1.000	0.860	1.000	61.998	22.288
Cable: 1HVYNNK042 DCD: <BLANK>																
1HVY-CH14		18.700	1.100	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	97.00	0.894	0.620	1.000	0.860	0.450	20.817	2.117
Cable: 1HVYNNK043 DCD: <BLANK>																
1HVY-CH18		18.700	1.100	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	97.00	0.894	0.620	1.000	0.860	0.450	20.817	2.117
Cable: 1HVYNNK044 DCD: <BLANK>																
1HVY-UH15		13.200	1.100	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	50.00	0.894	0.620	1.000	0.860	0.450	10.730	-2.470
Cable: 1HVYNNK045 DCD: <BLANK>																
1HVY-UH16		13.200	1.100	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	50.00	0.894	0.620	1.000	0.860	0.450	10.730	-2.470

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	LADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVYNNK046 DCD: <BLANK>																
1HVY-UH17		13.200	1.100	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	50.00	0.894	0.620	1.000	0.860	0.450	10.730	-2.470
Cable: 1HVYNNK047 DCD: <BLANK>																
1HVY-UH18		13.200	1.100	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	50.00	0.894	0.620	1.000	0.860	0.450	10.730	-2.470
Cable: 1JRBANK002 DCD: <BLANK>																
1JRB-EL1A		42.375	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	34.511
1JRB-EL1A		42.375	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	34.511
Cable: 1LACNNK011 DCD: <BLANK>																
1LAC-XLC6		33.110	1.100	1CK921NG		STD(CO) [3]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	1.000	65.902	32.792
Cable: 1LAHNNK004 DCD: <BLANK>																
1LAH-XLS1		19.800	1.100	1CK600ND2		UNIQUE-2(CO) [1]	0.000	0.000	130.00	0.894	0.620	1.000	0.860	1.000	61.998	42.198
Cable: 1POPNBK001 DCD: <BLANK>																
1POP-LTGR03		19.800	1.100	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	56.72	1.000	0.680	1.000	1.000	1.000	38.571	18.771
Cable: 1RCSNNK002 DCD: <BLANK>																
1B33-D003A-F		1.750	1.250	1TK525N		STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	7.023
1B33-D003A-F		1.750	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	7.023
Cable: 1RCSNNK004 DCD: <BLANK>																
1B33-D003A-F		1.750	1.250	1TK525N		STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	7.023
1B33-D003A-F		1.750	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	15.67	1.000	0.560	1.000	1.000	1.000	8.773	7.023
Cable: 1RCSNNK014 DCD: <BLANK>																
1B33-D003A-P		65.000	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	11.886
1B33-D003A-P		65.000	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	11.886
Cable: 1RCSNNK016 DCD: <BLANK>																
1B33-D003A-P		65.000	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	11.886
1B33-D003A-P		65.000	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	11.886
Cable: 1RDCABK500 DCD: <BLANK>																
1H22*PNLP072		15.000	1.250	1CK940BA		STD(CO) [3]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	1.000	65.902	50.902

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	RCDF	DCA	M(Amps)
Cable: 1RDCARK501 DCD: <BLANK>																
1H22*PNLP071		31.250	1.250	1TK500R		STD(TR) [3]	12.540	18.395	93.60	1.000	0.560	1.000	1.000	1.000	52.416	21.166
1H22*PNLP071		31.250	1.250	1TK500R	MR 96-0020	STD(TR) [3]	12.540	18.395	93.60	1.000	0.560	1.000	1.000	1.000	52.416	21.166
1H22*PNLP071		31.250	1.250	1TK502R		STD(TR) [3]	4.199	66.610	93.60	1.000	0.560	1.000	1.000	1.000	52.416	21.166
1H22*PNLP071		31.250	1.250	1TK502R	MR 96-0020	STD(TR) [3]	4.199	66.610	93.60	1.000	0.560	1.000	1.000	1.000	52.416	21.166
Cable: 1RPSBBK001 DCD: <BLANK>																
1RPS*XRC10B1		66.110	1.100	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	233.60	1.000	0.680	1.000	1.000	1.000	158.848	92.738
Cable: 1SCABNK001 DCD: <BLANK>																
1SCA-XD10B1		19.800	1.100	1CK920WN		STD(CO) [3]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	1.000	65.902	46.102
Cable: 1SCABNK003 DCD: <BLANK>																
1SCA-XD10B2		19.800	1.100	1CK921WM		STD(CO) [3]	0.000	0.000	97.00	1.000	0.790	1.000	0.860	1.000	65.902	46.102
Cable: 1SCADNK011 DCD: <BLANK>																
1SCA-PNL2D3		15.000	1.250	1TK525N		STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	33.621
1SCA-PNL2D3		15.000	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	33.621
Cable: 1SCAFNK004 DCD: <BLANK>																
1SCA-PNL2F2		15.000	1.250	1TK525N		STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	33.621
1SCA-PNL2F2		15.000	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	86.82	1.000	0.560	1.000	1.000	1.000	48.621	33.621
Cable: 1SCMBBK500 DCD: <BLANK>																
1SCM*PNL01B		87.500	1.250	1CK920BC		STD(CO) [3]	0.000	0.000	303.00	1.000	0.790	1.000	0.860	1.000	205.858	118.358
Cable: 1SCVARK004 DCD: <BLANK>																
1SCV*XD16A1		19.800	1.100	1TK203R		STD(TR) [1]	41.341	4.523	78.16	0.694	0.680	1.000	1.000	1.000	47.537	27.737
Cable: 1SCVBBK001 DCD: <BLANK>																
1SCV*XD8B1		19.800	1.100	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	118.01	1.000	0.680	1.000	1.000	1.000	80.248	60.449
Cable: 1SCVBBK002 DCD: <BLANK>																
1SCV*XD14B1		19.800	1.100	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	81.23	1.000	0.680	1.000	1.000	1.000	55.236	35.436
Cable: 1SLSNNK002 DCD: <BLANK>																
1C41-D002		15.000	1.250	1TK525N		STD(TR) [3]	34.572	5.582	41.73	1.000	0.560	1.000	1.000	1.000	23.370	8.370
1C41-D002		15.000	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	41.73	1.000	0.560	1.000	1.000	1.000	23.370	8.370

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SLSHNK003 DCD: <BLANK>																
1C41-D003		60.125	1.250	1TK525N		STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	16.761
1C41-D003		60.125	1.250	1TK525N	MR 96-0020	STD(TR) [3]	34.572	5.582	137.30	1.000	0.560	1.000	1.000	1.000	76.886	16.761
Cable: 1SWPARK017 DCD: <BLANK>																
1SWP*FN1A	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPBBK004 DCD: <BLANK>																
1SWP*P3B		26.250	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	81.23	1.000	0.680	1.000	1.000	1.000	55.236	28.986
1SWP*P3B		26.250	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	93.60	1.000	0.680	1.000	1.000	1.000	63.648	37.398
Cable: 1SWPCRK003 DCD: <BLANK>																
1SWP*FN1C	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPDBK002 DCD: <BLANK>																
1SWP*P3D		26.250	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	81.23	1.000	0.680	1.000	1.000	1.000	55.236	28.986
1SWP*P3D		26.250	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	93.60	1.000	0.680	1.000	1.000	1.000	63.648	37.398
Cable: 1SWPERK001 DCD: <BLANK>																
1SWP*FN1E	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPGRK001 DCD: <BLANK>																
1SWP*FN1G	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPJRK001 DCD: <BLANK>																
1SWP*FN1J	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPLRK001 DCD: <BLANK>																
1SWP*FN1L	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPNRK003 DCD: <BLANK>																
1SWP*FN1N	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPQRK001 DCD: <BLANK>																
1SWP*FN1Q	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172
Cable: 1SWPSRK001 DCD: <BLANK>																
1SWP*FN1S	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172

River Bend Station
Plant Data Management System (PDMS)
Derated Cables (Under Rated) - Wrapped RWs Only

Entergy Operations, Inc.

Date: 09/29/97
Page: 10

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPURK001 DCD: <BLANK>																
1SWP*FN1U	MR 96-0020	65.000	1.250	1TK203R		STD(TR) [1]	41.341	4.523	123.59	0.894	0.680	1.000	1.000	1.000	75.172	10.172

<END>

Entergy Operations, Inc.
River Bend Station
Plant Data Management System (PDMS)

Derated Cables (Under Rated) - Wrapped RWs Only

RPT00026

SEL00036

E-218, Rev 1, Attachment 3

Requested By : GUEST
Requested On : September 29, 1997 - 19:13:05
File Name : guli2t1154.cus
6.4/05 (ris.us5/02)

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1BYSANL605 DCD: <BLANK>																
1BYS-PNL02A2		200.000	1.000	1CL027NC		STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.800	207.081	7.081
Cable: 1BYSANL618 DCD: <BLANK>																
1BYS-PNL02A2		200.000	1.000	1CL027NC		STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.800	207.081	7.081
Cable: 1BYSBNL605 DCD: <BLANK>																
1BYS-PNL02B2		200.000	1.000	1CL052NA		STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.800	207.081	7.081
Cable: 1BYSBNL618 DCD: <BLANK>																
1BYS-PNL02B2		200.000	1.000	1CL052NA		STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.800	207.081	7.081
Cable: 1DRSANL003 DCD: <BLANK>																
1DRS-UC1A	MR 96-0020	85.000	1.250	1TL507N		STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
1DRS-UC1A	MR 96-0020	85.000	1.250	1TL507N	MR 96-0020	STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
Cable: 1DRSANL003 DCD: MR 95-0021																
1DRS-UC1A	MR 96-0020	85.000	1.250	1TL507N		STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
1DRS-UC1A	MR 96-0020	85.000	1.250	1TL507N	MR 96-0020	STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
Cable: 1DRSCNL003 DCD: <BLANK>																
1DRS-UC1C	MR 96-0020	85.000	1.250	1TL507N		STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
1DRS-UC1C	MR 96-0020	85.000	1.250	1TL507N	MR 96-0020	STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
Cable: 1DRSCNL003 DCD: MR 95-0021																
1DRS-UC1C	MR 96-0020	85.000	1.250	1TL507N		STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
1DRS-UC1C	MR 96-0020	85.000	1.250	1TL507N	MR 96-0020	STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
Cable: 1DRSENL003 DCD: <BLANK>																
1DRS-UC1E	MR 96-0020	85.000	1.250	1TL507N		STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
1DRS-UC1E	MR 96-0020	85.000	1.250	1TL507N	MR 96-0020	STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
Cable: 1DRSENL003 DCD: MR 95-0021																
1DRS-UC1E	MR 96-0020	85.000	1.250	1TL507N		STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
1DRS-UC1E	MR 96-0020	85.000	1.250	1TL507N	MR 96-0020	STD(TR) [3]	44.667	0.000	193.00	1.000	0.560	1.000	1.000	0.840	90.787	5.787
Cable: 1EHSBBL204 DCD: <BLANK>																
1EHS*MCC15B-		16.875	1.250	1CL051BE		STD(CO) [1]	0.000	0.000	381.00	0.894	0.790	1.000	0.860	1.000	231.524	214.649

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1EHSBBL205 DCD: <BLANK>																
1EHS*MCC15B-		16.875	1.250	1CL0518D		STD(CO) [1]	0.000	0.000	381.00	0.894	0.790	1.000	0.860	1.000	231.524	214.649
Cable: 1ENBBBL602 DCD: <BLANK>																
1EGE*CAB01B		125.000	1.000	1CL0518A		STD(CO) [1]	0.090	0.000	381.00	0.894	0.790	1.000	0.860	1.000	231.524	106.524
Cable: 1ENBBBL603 DCD: <BLANK>																
1ENB*PNL03B		25.812	1.250	1CL0518G		STD(CO) [1]	0.000	0.000	381.00	0.894	0.790	1.000	0.860	1.000	231.524	205.711
Cable: 1ENBBBL604 DCD: <BLANK>																
1ENB*PNL02B		190.000	1.250	1CL9208B		STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	0.800	207.081	17.081
Cable: 1ENBNNL600 DCD: <BLANK>																
1E22*PNLS001		62.500	1.250	1CL004NC		STD(CO) [1]	0.000	0.000	303.00	1.090	0.790	1.000	0.860	1.000	205.858	143.358
Cable: 1FPWNNL009 DCD: <BLANK>																
1FPW-P2		120.838	1.250	1CL901NN5		STD(CO) [3]	0.000	0.000	303.00	1.000	0.790	1.000	0.860	1.000	205.858	85.021
Cable: 1HVCBBL200 DCD: <BLANK>																
1HVC*ACU1B	MR 96-0020	108.750	1.250	1TL012B		UNIQUE-3(TR) [3]	41.700	0.000	193.00	1.000	0.650	1.000	1.000	0.820	102.869	-5.881
Cable: 1HVCBBL201 DCD: <BLANK>																
1HVC*ACU2B	MR 96-0020	106.250	1.250	1TL012B		UNIQUE-3(TR) [3]	41.700	0.000	193.00	1.000	0.650	1.000	1.000	0.820	102.869	-3.381
Cable: 1HVCBBL202 DCD: <BLANK>																
1HVC*PNL1B		86.020	1.100	1TL012B		UNIQUE-3(TR) [3]	41.700	0.000	193.00	1.000	0.650	1.000	1.000	0.820	102.869	16.849
Cable: 1HVFARL001 DCD: <BLANK>																
1HVF*FN3A	MR 96-0020	65.000	1.250	1TL600R		STD(TR) [3]	56.222	0.000	292.00	0.894	0.560	1.000	1.000	0.820	119.930	54.931
1HVF*FN3A	MR 96-0020	65.000	1.250	1TL601R		STD(TR) [3]	39.944	0.000	292.00	0.894	0.560	1.000	1.000	0.820	119.930	54.931
1HVF*FN3A	MR 96-0020	65.000	1.250	1TL602R		STD(TR) [3]	29.111	0.000	292.00	0.966	0.560	1.000	1.000	0.840	132.747	67.747
Cable: 1HVFARL200 DCD: <BLANK>																
1HVF*PNL7A		75.460	1.100	1TL600R		STD(TR) [3]	56.222	0.000	292.00	0.894	0.560	1.000	1.000	0.820	119.930	44.471
1HVF*PNL7A		75.460	1.100	1TL601R		STD(TR) [3]	39.944	0.000	292.00	0.894	0.560	1.000	1.000	0.820	119.930	44.471
1HVF*PNL7A		75.460	1.100	1TL602R		STD(TR) [3]	29.111	0.000	292.00	0.966	0.560	1.000	1.000	0.840	132.747	57.287
Cable: 1HVKBBL200 DCD: <BLANK>																
1HVK*CHL1B	MR 96-0020	171.250	1.250	1TL012B		UNIQUE-3(TR) [3]	41.700	0.000	292.00	1.000	0.650	1.000	1.000	0.820	155.636	-15.614

Load Id	LDCD	Load Amp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVKBBL201 DCD: <BLANK>																
1HVK*CHL1B	MR 96-0020	171.250	1.250	1TL012B		UNIQUE-3(TR) [3]	41.700	0.000	292.00	1.000	0.650	1.000	1.000	0.820	155.636	-15.614
Cable: 1HVKDBL200 DCD: <BLANK>																
1HVK*CHL1D	MR 96-0020	171.250	1.250	1TL012B		UNIQUE-3(TR) [3]	41.700	0.000	292.00	1.000	0.650	1.000	1.000	0.820	155.636	-15.614
Cable: 1HVKDBL201 DCD: <BLANK>																
1HVK*CHL1D	MR 96-0020	171.250	1.250	1TL012B		UNIQUE-3(TR) [3]	41.700	0.000	292.00	1.000	0.650	1.000	1.000	0.820	155.636	-15.614
Cable: 1HVPA0L001 DCD: <BLANK>																
1HVP*FN3A	MR 96-0020	155.000	1.250	1CL909DA1		STD(CO) [1]	0.000	0.000	249.00	1.000	0.790	1.000	0.860	1.000	169.171	14.171
1HVP*FN3A	MR 96-0020	155.000	1.250	1CL909DA1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	249.00	1.000	0.790	1.000	0.860	1.000	169.171	14.171
Cable: 1HVPBBL200 DCD: <BLANK>																
1HVP*FA2B		142.500	1.250	1CL053BA		STD(CO) [1]	0.000	0.000	249.00	0.894	0.790	1.000	0.860	1.000	151.311	8.811
Cable: 1HVRBBL201 DCD: <BLANK>																
1HVR*UC1B	MR 96-0020	211.250	1.250	1CL540BB		STD(CO) [3]	0.000	0.000	381.00	1.000	0.790	1.000	0.860	1.000	258.851	47.601
Cable: 1HVRCNL201 DCD: <BLANK>																
1HVR-UC1C		211.250	1.250	1TL507N		STD(TR) [3]	44.667	0.000	458.00	1.000	0.560	1.000	1.000	0.840	215.443	4.193
1HVR-UC1C		211.250	1.250	1TL507N	MR 96-0020	STD(TR) [3]	44.667	0.000	458.00	1.000	0.560	1.000	1.000	0.840	215.443	4.193
Cable: 1IHSNNL603 DCD: <BLANK>																
1IHS-SWG01D-		375.000	1.250	1CL919NF		STD(CO) [1]	0.000	0.000	598.00	1.000	0.790	1.000	0.860	1.000	406.281	31.281
Cable: 1NHSBNL216 DCD: <BLANK>																
1NHS-MCC15B-		196.250	1.250	1CL110NC		STD(CO) [1]	0.000	0.000	381.00	0.894	0.790	1.000	0.860	1.000	231.524	35.274
Cable: 1NHSBNL235 DCD: <BLANK>																
1NHS-MCC15B-		196.250	1.250	1CL110ND		STD(CO) [1]	0.000	0.000	381.00	0.894	0.790	1.000	0.860	1.000	231.524	35.274
Cable: 1SFCARL200 DCD: <BLANK>																
1SFC*P1A	MR 96-0020	145.000	1.250	1TL600R		STD(TR) [3]	56.222	0.000	364.00	0.894	0.560	1.000	1.000	0.820	149.502	4.502
1SFC*P1A	MR 96-0020	145.000	1.250	1CL600RA		STD(CO) [3]	0.000	0.000	303.00	0.894	0.790	1.000	0.860	1.000	184.125	39.125
1SFC*P1A	MR 96-0020	145.000	1.250	1CL600RA1		STD(CO) [3]	0.000	0.000	303.00	0.894	0.790	1.000	0.860	1.000	184.125	39.125
1SFC*P1A	MR 96-0020	145.000	1.250	1CL600RA2		STD(CO) [3]	0.000	0.000	303.00	0.894	0.790	1.000	0.860	1.000	184.125	39.125

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SFCBBL200 DCD: <BLANK>																
1SFC*P1B	MR 96-0070	147.500	1.250	1CL600BA1		STD(CO) [3]	0.000	0.000	503.00	0.894	0.790	1.000	0.860	1.000	184.125	36.625

<END>

Entergy Operations, Inc.
River Bend Station
Plant Data Management System (PDMS)

Derated Cables (Under Rated) - Wrapped RWs Only

RPT00026

SEL00036

E-218, Rev 1, Attachment 4

Requested By : GUEST
Requested On : September 30, 1997 - 07:25:11
File Name : [illegible]2325.cus
6.4/05 [illegible]s5/02)

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	NCDF	DCA	M(Amps)
Cable: 1ADSARC601 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSARC603 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSARC605 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSBRC603 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSBRC605 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSBRC607 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1ADSBRC607 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSCRC601 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSCRC603 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSCRC605 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSDRC603 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSDRC605 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1ADSERC601 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSERC603 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSFRC601 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSFRC603 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1ADSGRC601 DCD: <BLANK>																
1ADS*RVF		0.625	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	6.013
1ADS*RVF		0.625	1.250	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
1ADS*RVF		0.625	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.603	16.77	1.000	0.560	1.000	1.000	1.000	9.391	8.766
Cable: 1CCPARC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpsRw	CADF	SSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CCPARC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC504R		STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1CCPARC013 DCD: <BLANK>																
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	5.716
Cable: 1CCPBBC002 DCD: <BLANK>																
3AFU		3.000	1.000	1CC8168B		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
Cable: 1CCPBBC004 DCD: <BLANK>																
3AFU		3.000	1.000	1CC8168B		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1CC816BC		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
3AFU		3.000	1.000	1CC816BC1		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1CCPBBC006 DCD: <BLANK>																
3AFU		3.000	1.000	1CC8168B		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1CC816BC		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1CCPCRC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC504R		STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1CCPDBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.32	1.000	0.680	1.000	1.000	1.000	8.381	5.381
Cable: 1CESBBC500 DCD: <BLANK>																
1CES*PNL68	MR 96-0020	4.688	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	6.739
1CES*PNL68	MR 96-0020	4.688	1.250	1CC027B1		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	1.000	24.458	19.771
Cable: 1CMSARC522 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856

River Bend Station
Plant Data Management System (PDMS)
Derated Cables (Under Rated) - Wrapped RWs Only

Entergy Operations, Inc.

Date: 09/30/97
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Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CMSARC522 DCD: <BLANK>																
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1CMSARC523 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	2.309
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	2.309
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
Cable: 1CMSARC534 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	14.40	1.000	0.560	1.000	1.000	1.000	8.064	5.064
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	14.40	1.000	0.560	1.000	1.000	1.000	8.064	5.064
Cable: 1CMSARC537 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	2.069
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	2.069
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	4.171
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	4.171
Cable: 1CMSARC538 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	2.309
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	2.309
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
Cable: 1CMSARC540 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	14.40	1.000	0.560	1.000	1.000	1.000	8.064	5.064
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	14.40	1.000	0.560	1.000	1.000	1.000	8.064	5.064

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CMSARC543 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	6.90	1.000	0.560	1.000	1.000	1.000	3.863	0.863
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	6.90	1.000	0.560	1.000	1.000	1.000	3.863	0.863
Cable: 1CMSARC549 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	6.90	1.000	0.560	1.000	1.000	1.000	3.863	0.863
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	6.90	1.000	0.560	1.000	1.000	1.000	3.863	0.863
Cable: 1CMSARC555 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	2.069
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	2.069
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	4.171
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	4.171
Cable: 1CMSARC556 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	2.309
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	2.309
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
Cable: 1CMSARC558 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	9.76	1.000	0.560	1.000	1.000	1.000	5.465	2.465
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	6.90	1.000	0.560	1.000	1.000	1.000	3.863	0.863
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	6.90	1.000	0.560	1.000	1.000	1.000	3.863	0.863
Cable: 1CMSNRC507 DCD: <BLANK>																
1CMS*CKT1A		14.058	1.100	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-7.420
1CMS*CKT1A		14.058	1.100	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-7.420

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CMSNRC507 DCD: <BLANK>																
1CMS*CKT1A		14.058	1.100	1TC504R		STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	-1.962
1CMS*CKT1A		14.058	1.100	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	-1.962
Cable: 1CMSNRC508 DCD: <BLANK>																
1CMS*CKT2A		11.011	1.100	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-4.373
1CMS*CKT2A		11.011	1.100	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-4.373
1CMS*CKT2A		11.011	1.100	1TC504R		STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	1.085
1CMS*CKT2A		11.011	1.100	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	1.085
Cable: 1CMSNRC509 DCD: <BLANK>																
1CMS*CKT3A		11.011	1.100	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-4.373
1CMS*CKT3A		11.011	1.100	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-4.373
1CMS*CKT3A		11.011	1.100	1TC504R		STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	1.085
1CMS*CKT3A		11.011	1.100	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	1.085
Cable: 1CMSNRC510 DCD: <BLANK>																
1CMS*CKT4A		14.498	1.100	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-7.860
1CMS*CKT4A		14.498	1.100	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	-7.860
1CMS*CKT4A		14.498	1.100	1TC504R		STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	-2.402
1CMS*CKT4A		14.498	1.100	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	-2.402
Cable: 1CMSYRC506 DCD: <BLANK>																
5AFU		5.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	0.310
5AFU		5.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	0.310
Cable: 1CMSYRC524 DCD: <BLANK>																
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1CMSYRC525 DCD: <BLANK>																
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CMSYRC525 DCD: <BLANK>																
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1CMSYRC526 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	10.80	1.000	0.560	1.000	1.000	1.000	6.048	3.048
Cable: 1CPMARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1CPMARC008 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1CPMARC010 DCD: <BLANK>																
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391
Cable: 1CPMARC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CPMARC024 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1CPMARC507 DCD: <BLANK>																
1AFU		1.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	16.79	1.000	0.560	1.000	1.000	1.000	9.403	8.403
1AFU		1.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	16.79	1.000	0.560	1.000	1.000	1.000	9.403	8.403
1AFU		1.000	1.000	1TK501R		STD(TR) [3]	3.911	72.415	28.80	1.000	0.560	1.000	1.000	1.000	16.128	15.128
1AFU		1.000	1.000	1TK501R	MR 96-0020	STD(TR) [3]	3.911	72.415	28.80	1.000	0.560	1.000	1.000	1.000	16.128	15.128
Cable: 1CPMCRC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1CPMCRC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1CPMCRC007 DCD: <BLANK>																
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391
Cable: 1CSHA0C600 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHAOC600 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	6.605
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	13.83	1.000	0.680	1.000	1.000	1.000	9.401	8.026
Cable: 1CSHBOC600 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	6.605
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	13.83	1.000	0.680	1.000	1.000	1.000	9.401	8.026
Cable: 1CSHCOC500 DCD: <BLANK>																
1E22*S001TCB		1.250	1.250	1CK9090E2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	13.425
1E22*S001TCB		1.250	1.250	1CK9090E2	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	13.425
Cable: 1CSHNOC002 DCD: <BLANK>																
1AFU		1.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	6.412
Cable: 1CSHNOC003 DCD: <BLANK>																
2AFU		2.000	1.000	1CC9390C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
Cable: 1CSHNOC004 DCD: <BLANK>																
1AFU		1.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	6.412
Cable: 1CSHNOC007 DCD: <BLANK>																
2AFU		2.000	1.000	1CC9390C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
Cable: 1CSHNOC008 DCD: <BLANK>																
2AFU		2.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	5.412
Cable: 1CSHNOC009 DCD: <BLANK>																
1AFU		1.000	1.000	1CC9390C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	6.383

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC010 DCD: <BLANK>																
2AFU		2.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	5.412
Cable: 1CSHNOC011 DCD: <BLANK>																
1AFU		1.000	1.000	1CC9390C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	6.383
Cable: 1CSHNOC012 DCD: <BLANK>																
1AFU		1.000	1.000	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	13.83	1.000	0.680	1.000	1.000	1.000	9.401	8.401
Cable: 1CSHNOC013 DCD: <BLANK>																
1AFU		1.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	6.412
Cable: 1CSHNOC015 DCD: <BLANK>																
2AFU		2.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	5.412
Cable: 1CSHNOC017 DCD: <BLANK>																
1AFU		1.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	6.412
Cable: 1CSHNOC035 DCD: <BLANK>																
2AFU		2.000	1.000	1CC9390C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
Cable: 1CSHNOC300 DCD: <BLANK>																
1H13*P751-CW		1.375	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CW		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	12.84	1.000	0.680	1.000	1.000	1.000	8.732	7.357
Cable: 1CSHNOC302 DCD: <BLANK>																
1E22*PNLS001		0.300	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	7.680
1E22*PNLS001		0.300	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpsRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC302 DCD: MR 96-9999																
1E22*PNLS001		0.300	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	7.680
1E22*PNLS001		0.300	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
Cable: 1CSHNOC303 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	13.83	1.000	0.680	1.000	1.000	1.000	9.401	8.026
Cable: 1CSHNOC306 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	12.84	1.000	0.680	1.000	1.000	1.000	8.732	7.357
Cable: 1CSHNOC308 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.137
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
Cable: 1CSHNOC309 DCD: <BLANK>																
1E22*PNLS001		0.300	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	7.680
1E22*PNLS001		0.300	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
Cable: 1CSHNOC310 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	4.493
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC312 DCD: <BLANK>																
1E22*S004	MR 96-0020	0.458	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.963
1E22*S004	MR 96-0020	0.458	1.250	1TC0030		STD(TR) [1]	30.854	6.381	12.84	1.000	0.680	1.000	1.000	1.000	8.732	8.275
Cable: 1CSHNOC314 DCD: <BLANK>																
1H13*P712-CN		1.375	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P712-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
1H13*P712-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P712-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.137
Cable: 1CSHNOC315 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	12.84	1.000	0.680	1.000	1.000	1.000	8.732	7.357
Cable: 1CSHNOC319 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0010J		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	14.856
1H22*PNLP028		3.487	1.250	1TC0010		STD(TR) [1]	3.570	80.611	21.60	1.000	0.680	1.000	1.000	1.000	14.688	11.200
1H22*PNLP028		3.487	1.250	1CC9090C1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.353
1H22*PNLP028		3.487	1.250	1CC9090C1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.353
Cable: 1CSHNOC321 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0010K		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.188
1H22*PNLP028		3.487	1.250	1TC0010		STD(TR) [1]	3.570	80.611	21.60	1.000	0.680	1.000	1.000	1.000	14.688	11.200
1H22*PNLP028		3.487	1.250	1CC9090C7		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.188
1H22*PNLP028		3.487	1.250	1CC9090C7	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.188
Cable: 1CSHNOC322 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0010K		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.188
1H22*PNLP028		3.487	1.250	1TC0010		STD(TR) [1]	3.570	80.611	21.60	1.000	0.680	1.000	1.000	1.000	14.688	11.200
1H22*PNLP028		3.487	1.250	1CC9090C7		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.188
1H22*PNLP028		3.487	1.250	1CC9090C7	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.188
Cable: 1CSHNOC400 DCD: <BLANK>																
1E22*S004-1		6.250	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	2.310

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC400 DCD: <BLANK>																
1E22*S004-1		6.250	1.250	1TC0020		STD(TR) [1]	40.773	4.597	17.07	1.000	0.680	1.000	1.000	1.000	11.606	5.356
1E22*S004-1		6.250	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.400	9.783	3.533
1E22*S004-1		6.250	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.400	9.783	3.533
Cable: 1CSHNOC450 DCD: <BLANK>																
1E22*PNLS001		0.300	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1TC0020		STD(TR) [1]	40.773	4.597	12.12	1.000	0.680	1.000	1.000	1.000	8.242	7.942
1E22*PNLS001		0.300	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
Cable: 1CSHNOC451 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	12.12	1.000	0.680	1.000	1.000	1.000	8.242	4.754
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
Cable: 1CSHNOC453 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
Cable: 1CSHNOC456 DCD: <BLANK>																
1E22*PNLS001		0.300	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1TC0020		STD(TR) [1]	40.773	4.597	12.12	1.000	0.680	1.000	1.000	1.000	8.242	7.942
1E22*PNLS001		0.300	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
Cable: 1CSHNOC457 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC0030C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
Cable: 1CSHNOC502 DCD: <BLANK>																
1AFU		1.000	1.000	1CC9180A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	8.172
1AFU		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	12.12	1.000	0.680	1.000	1.000	1.000	8.242	7.242

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CFDF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC502 DCD: <BLANK>																
1AFU		1.000	1.000	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	8.710
Cable: 1CSHNOC511 DCD: <BLANK>																
2AFU		2.000	1.000	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.206
Cable: 1CSHNOC512 DCD: <BLANK>																
2AFU		2.000	1.000	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.206
Cable: 1CSHNOC516 DCD: <BLANK>																
1H13*P702-A2		1.250	1.250	1TC0010		STD(TR) [1]	3.570	80.611	28.80	1.000	0.680	1.000	1.000	1.000	19.584	18.334
Cable: 1CSHNOC519 DCD: <BLANK>																
1E22*PNLS001		2.500	1.250	1CC0030B		STD(CO) [1]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	6.060
1E22*PNLS001		2.500	1.250	1TC0030		STD(TR) [1]	30.854	6.381	23.34	1.000	0.680	1.000	1.000	1.000	15.873	13.373
1E22*PNLS001		2.500	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	6.060
1E22*PNLS001		2.500	1.250	1TC0020		STD(TR) [1]	40.773	4.597	19.81	1.000	0.680	1.000	1.000	1.000	13.473	10.973
1E22*PNLS001		2.500	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	6.060
1E22*PNLS001		2.500	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	6.060
Cable: 1CSHNOC521 DCD: <BLANK>																
1E22*S002-4		2.125	1.250	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.295
1E22*S002-4		2.125	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.081
1E22*S002-4		2.125	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.295
1E22*S002-4		2.125	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	7.387
1E22*S002-4		2.125	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.295
1E22*S002-4		2.125	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.295
Cable: 1CSHNOC523 DCD: <BLANK>																
2AFU		2.000	1.000	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC523 DCD: <BLANK>																
2AFU		2.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	5.412
2AFU		2.000	1.000	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	12.84	1.000	0.680	1.000	1.000	1.000	8.732	6.732
2AFU		2.000	1.000	1CC00308		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
Cable: 1CSHNOC524 DCD: <BLANK>																
1AFU		1.000	1.000	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.512
1AFU		1.000	1.000	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	10.206
1AFU		1.000	1.000	1CC00308		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
Cable: 1CSHNOC525 DCD: <BLANK>																
2AFU		2.000	1.000	1CC00308		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.206
2AFU		2.000	1.000	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	7.512
2AFU		2.000	1.000	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
2AFU		2.000	1.000	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	4.420
Cable: 1CSHNOC526 DCD: <BLANK>																
1AFU		1.000	1.000	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.80	1.000	0.680	1.000	1.000	1.000	7.344	6.344
1AFU		1.000	1.000	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	10.80	1.000	0.680	1.000	1.000	1.000	7.344	6.344
1AFU		1.000	1.000	1CC00308		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
Cable: 1CSHNOC527 DCD: <BLANK>																
1E22*C003-HT		0.312	1.250	1CK93900		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	7.891

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC600 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	7.797
1H13*P751-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.137
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
Cable: 1CSHNOC601 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	6.605
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	13.83	1.000	0.680	1.000	1.000	1.000	9.401	8.026
Cable: 1CSHNOC602 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	12.12	1.000	0.680	1.000	1.000	1.000	8.242	6.867
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	8.335
Cable: 1CSHNOC604 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.024
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
Cable: 1CSHNOC605 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.024
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC606 DCD: <BLANK>																
1E22*PNLS001		0.300	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	9.212
1E22*PNLS001		0.300	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
Cable: 1CSHNOC607 DCD: <BLANK>																
1E22*PNLS001		0.300	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	9.212
1E22*PNLS001		0.300	1.250	1CC9090A9		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
1E22*PNLS001		0.300	1.250	1CC9090A9	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.120
Cable: 1CSHNOC608 DCD: <BLANK>																
1H13*P712-CN		1.375	1.250	1CC0010B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	13.300
1H13*P712-CN		1.375	1.250	1TC0010		STD(TR) [1]	3.570	80.611	21.60	1.000	0.680	1.000	1.000	1.000	14.688	13.313
Cable: 1CSHNOC610 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	4.493
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
Cable: 1CSHNOC611 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	4.493
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
Cable: 1CSHNOC612 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.024
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC613 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC0020B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.024
1H22*PNLP028		3.487	1.250	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
1H22*PNLP028		3.487	1.250	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	3.850
Cable: 1CSHNOC614 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC9090A2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	5.684
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.024
Cable: 1CSHNOC615 DCD: <BLANK>																
1H22*PNLP028		3.487	1.250	1CC9090A2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	5.684
1H22*PNLP028		3.487	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.024
1H22*PNLP028		3.487	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	2.933
1H22*PNLP028		3.487	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	7.718
Cable: 1CSHNOC616 DCD: <BLANK>																
1H13*P712-CN		1.375	1.250	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P712-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
1H13*P712-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P712-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.137
Cable: 1CSHNOC620 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.137
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
Cable: 1CSHNOC621 DCD: <BLANK>																
1H13*P702-A2		1.250	1.250	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1H13*P702-A2		1.250	1.250	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1H13*P702-A2		1.250	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.262

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	xDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSHNOC621 DCD: <BLANK>																
1H13*P702-A2		1.250	1.250	1CC0020G		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	17.094
Cable: 1CSHROC500 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
Cable: 1CSHROC505 DCD: <BLANK>																
3AFU		3.000	1.000	1CC9090A1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC9090A1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.512
3AFU		3.000	1.000	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
Cable: 1CSHROC602 DCD: <BLANK>																
1E22*F010-CN		0.412	1.250	1CC9390C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	6.971
1E22*F010-CN		0.412	1.250	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.008
1E22*F010-CN		0.412	1.250	1TC0030		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	9.297
Cable: 1CSHROC603 DCD: <BLANK>																
1E22*F011-CN		0.412	1.250	1CC9390C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	6.971
1E22*F011-CN		0.412	1.250	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	6.008
1E22*F011-CN		0.412	1.250	1TC0030		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	9.297
Cable: 1CSLNRC501 DCD: <BLANK>																
1E21*AOVF006		0.512	1.250	1TC500R		STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	4.556
1E21*AOVF006		0.512	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	4.556
1E21*AOVF006		0.512	1.250	1TC502R		STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	6.659
1E21*AOVF006		0.512	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	6.659
Cable: 1CSLNRC503 DCD: <BLANK>																
1AFU		1.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	4.752
1AFU		1.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	4.752
1AFU		1.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.53	1.000	0.560	1.000	1.000	1.000	8.137	7.137

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1CSLNRC503 DCD: <BLANK>																
1AFU		1.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.508	14.53	1.000	0.560	1.000	1.000	1.000	8.137	7.137
Cable: 1DERARC500 DCD: <BLANK>																
3AFU		3.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	17.60	0.966	0.560	1.000	1.000	1.000	9.525	6.525
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	17.60	0.894	0.560	1.000	1.000	1.000	8.816	5.815
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	5.716
Cable: 1DFMANC002 DCD: <BLANK>																
1DFM-SWC4A		3.000	1.000	1CK920NM		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1DFMANC003 DCD: <BLANK>																
1DFM-LS107		3.000	1.000	1CK920NM		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1DRSNNC502 DCD: <BLANK>																
1DRS-UC1A-HT		1.038	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
1DRS-UC1A-HT		1.038	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
1DRS-UC1A-HT		1.038	1.250	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.059
1DRS-UC1A-HT		1.038	1.250	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.059
Cable: 1DRSNNC502 DCD: MR 95-0021																
1DRS-UC1A-HT		1.038	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
1DRS-UC1A-HT		1.038	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
1DRS-UC1A-HT		1.038	1.250	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.059
1DRS-UC1A-HT		1.038	1.250	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.059
Cable: 1DRSNNC504 DCD: <BLANK>																
1DRS-FS57A		0.062	1.250	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	9.112
1DRS-FS57A		0.062	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	9.112
Cable: 1DRSNNC508 DCD: <BLANK>																
1DRS-UC1C-HT		1.038	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
1DRS-UC1C-HT		1.038	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
Cable: 1DRSNNC508 DCD: MR 95-0021																
1DRS-UC1C-HT		1.038	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1DRSNNC508 DCD: MR 95-0021																
1DRS-UC1C-HT		1.038	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
Cable: 1DRSNNC525 DCD: <BLANK>																
1DRS-UC1E-HT		1.038	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
1DRS-UC1E-HT		1.038	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
Cable: 1DRSNNC525 DCD: MR 95-0021																
1DRS-UC1E-HT		1.038	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
1DRS-UC1E-HT		1.038	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	9.898
Cable: 1EGAARC601 DCD: <BLANK>																
1EGS*PNL3A-B		1.250	1.250	1CC907RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1EGS*PNL3A-B		1.250	1.250	1CC907RA1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
Cable: 1EGABBC601 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC154BE		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013
Cable: 1EGABBC603 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC154BE		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013
Cable: 1EGACRC600 DCD: <BLANK>																
1EGS*PNL3A-B		1.250	1.250	1CC907RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1EGS*PNL3A-B		1.250	1.250	1CC907RA1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
Cable: 1EGACRC602 DCD: <BLANK>																
1EGS*PNL3A-B		1.250	1.250	1CC907RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1EGS*PNL3A-B		1.250	1.250	1CC907RA1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
Cable: 1EGACRC604 DCD: <BLANK>																
1EGS*PNL3A-B		1.250	1.250	1CC907RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1EGS*PNL3A-B		1.250	1.250	1CC907RA1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
Cable: 1EGADBC600 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC908BA1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013
Cable: 1EGADBC602 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC908BA1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1EGADBC602 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC920BL1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	11.291
Cable: 1EGADBC604 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC9088A1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013
Cable: 1EGFBBC001 DCD: <BLANK>																
1H13*P744-E4		3.000	1.000	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1EGFC0C001 DCD: <BLANK>																
1AFU		1.000	1.000	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1AFU		1.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	8.710
Cable: 1EGFC0C002 DCD: <BLANK>																
1EGF*PNL101-		1.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1EGF*PNL101-		1.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.68	1.000	0.680	1.000	1.000	1.000	7.263	6.263
1EGF*PNL101-		1.000	1.000	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
1EGF*PNL101-		1.000	1.000	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.420
Cable: 1EGSARC611 DCD: <BLANK>																
3AFU		3.000	1.000	1CC907RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC907RA1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1EGSBBC401 DCD: <BLANK>																
1EGS*PNL2B		6.250	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	36.90	0.894	0.790	1.000	0.860	0.350	7.657	1.407
Cable: 1EGSBBC405 DCD: <BLANK>																
1EGS*PNL2B		6.250	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	36.00	0.894	0.790	1.000	0.860	0.350	7.657	1.407
Cable: 1EGSBBC451 DCD: <BLANK>																
1ENS*SWG1B	MR 96-0020	1.250	1.250	1CC154BC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1EGSBBC453 DCD: <BLANK>																
1ENS*SWG1B	MR 96-0020	1.250	1.250	1CC154BC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1EGSBBC454 DCD: <BLANK>																
1EGS*PNL2B-1		1.250	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1EGSBBC604 DCD: <BLANK>																
1EGS*PNL2B-3		3.750	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	1.992
Cable: 1EGSBBC605 DCD: <BLANK>																
1H13*P746-A5		3.750	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	1.992
Cable: 1EGSBBC607 DCD: <BLANK>																
1H13*P746-A5		3.750	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	1.992
Cable: 1EGSBBC609 DCD: <BLANK>																
1EGS*PNL2B-3		3.750	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	1.992
Cable: 1EGSBBC610 DCD: <BLANK>																
1H13*P702-E7		1.250	1.250	1CC154BC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1EGSBBC611 DCD: <BLANK>																
3AFU		3.000	1.000	1CC908BA1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	3.563
Cable: 1EGSBBC617 DCD: <BLANK>																
1ENS*SWG1B-2		1.250	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1EGSBBC618 DCD: <BLANK>																
1H13*P746-A5		3.750	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	2.536
Cable: 1ENBARC617 DCD: <BLANK>																
1ENS*SWG3A-3		4.250	1.250	1TC600R		STD(TR) [3]	20.863	10.109	116.85	0.894	0.560	1.000	1.000	1.000	58.527	54.277
1ENS*SWG3A-3		4.250	1.250	1CC600R8		STD(CO) [1]	0.000	0.000	130.00	0.894	0.790	1.000	0.860	0.450	35.549	31.299
Cable: 1ENBBBC600 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	4.064
Cable: 1ENBBBC601 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	4.064
Cable: 1ENBBBC602 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	4.064
Cable: 1ENBBBC603 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	4.064

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	SSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1ENBBBC604 DCD: <BLANK>																
1ENS*SWG1B-2		4.925	1.250	1CC040BC		STD(CO) [3]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.500	44.161	39.236
Cable: 1ENBBBC605 DCD: <BLANK>																
1EJS*LDC2B-3		2.500	1.250	1CC040BC		STD(CO) [3]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.500	44.161	41.661
Cable: 1ENBBBC606 DCD: <BLANK>																
1EJS*LDC1B-3		7.500	1.250	1CC040BE		STD(CO) [3]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.700	61.825	54.325
Cable: 1ENBBBC616 DCD: <BLANK>																
1ENS*SWG4A-3		23.875	1.250	1CC154BH		STD(CO) [1]	0.000	0.000	130.00	0.894	0.790	1.000	0.860	1.000	78.998	55.123
Cable: 1ENBBBC617 DCD: <BLANK>																
1ENS*SWG4B-3		1.250	1.250	1CC154BL		STD(CO) [1]	0.000	0.000	130.00	0.894	0.790	1.000	0.860	1.000	78.998	77.748
Cable: 1ENBBBC618 DCD: <BLANK>																
1ENS*BTC2		1.250	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	69.91	1.000	0.650	1.000	1.000	1.000	45.441	44.191
Cable: 1ENBBBC619 DCD: <BLANK>																
1ENB*SWG01B-		2.500	1.250	1CC040BC		STD(CO) [3]	0.000	0.000	130.00	1.000	0.790	1.000	0.860	0.500	44.161	41.661
Cable: 1ENBBBC635 DCD: <BLANK>																
10AFU		10.000	1.000	1CC154BN		STD(CO) [1]	0.000	0.000	50.00	0.894	0.790	1.000	0.860	0.800	24.307	14.307
Cable: 1ENBCOC600 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC002O		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	6.037
1H13*P751-CN		1.375	1.250	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.045
1H13*P751-CN		1.375	1.250	1TC003O		STD(TR) [1]	30.854	6.381	12.84	1.000	0.680	1.000	1.000	1.000	8.732	7.357
Cable: 1ENBCOC603 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC9090C1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	11.466
1H13*P751-CN		1.375	1.250	1CC9090C1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	11.466
1H13*P751-CN		1.375	1.250	1TC001O		STD(TR) [1]	3.570	80.611	21.60	1.000	0.680	1.000	1.000	1.000	14.688	13.313
1H13*P751-CN		1.375	1.250	1CC0010A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	13.300
1H13*P751-CN		1.375	1.250	1TC003O		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1ENBC0C603 DCD: MR 91-0074																
1H13*P751-CN		1.375	1.250	1CC9090C1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	11.466
1H13*P751-CN		1.375	1.250	1CC9090C1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	11.466
1H13*P751-CN		1.375	1.250	1TC001O		STD(TR) [1]	3.570	80.611	21.60	1.000	0.680	1.000	1.000	1.000	14.688	13.313
1H13*P751-CN		1.375	1.250	1CC0010A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	13.300
1H13*P751-CN		1.375	1.250	1TC003O		STD(TR) [1]	30.854	6.381	14.48	1.000	0.680	1.000	1.000	1.000	11.206	9.831
Cable: 1ENSARC319 DCD: <BLANK>																
1EGS*PNL3A-B		1.250	1.250	1CC907RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1EGS*PNL3A-B		1.250	1.250	1CC907RA1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
Cable: 1ENSARC502 DCD: <BLANK>																
1ENS*SWG3A-H		3.125	1.250	1TC600R		STD(TR) [3]	20.863	10.109	47.82	0.894	0.560	1.000	1.000	1.000	23.954	20.829
1ENS*SWG3A-H		3.125	1.250	1CC600RB		STD(CO) [1]	0.000	0.000	50.00	0.894	0.790	1.000	0.860	0.450	13.673	10.548
Cable: 1ENSBBC301 DCD: <BLANK>																
1EGS*PNL1B		1.250	1.250	1CC1548C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSBBC301 DCD: MR 91-0074																
1EGS*PNL1B		1.250	1.250	1CC1548C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSBBC302 DCD: <BLANK>																
1ENS*SWG2B-3		0.300	1.250	1CC1548A		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	7.904
Cable: 1ENSBBC307 DCD: <BLANK>																
1EGS*PNL1B		1.250	1.250	1CC1548C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSBBC307 DCD: MR 91-0074																
1EGS*PNL1B		1.250	1.250	1CC1548C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSBBC311 DCD: <BLANK>																
1ENS*SWG2B-3		0.300	1.250	1CC1548A		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	7.904
Cable: 1ENSBBC314 DCD: <BLANK>																
1EGS*PNL2B-1		1.250	1.250	1CC1548F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSBBC315 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC1548E		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1ENSBBC316 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC920BL1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	11.291
1EGS*PNL3B-B		1.550	1.250	1CC908BA1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013
Cable: 1ENSBBC317 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC154BE		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013
Cable: 1ENSBBC450 DCD: <BLANK>																
1EGS*PNL1B		1.250	1.250	1CC154BC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSBBC451 DCD: <BLANK>																
1EGS*PNL2B-1		1.250	1.250	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSBBC504 DCD: <BLANK>																
1ENS*SWG4A-H		3.125	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	28.61	1.000	0.650	1.000	1.000	1.000	18.598	15.473
Cable: 1ENSDBC301 DCD: <BLANK>																
1EGS*PNL1B		1.250	1.250	1CC154BC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSDBC301 DCD: MR 91-0074																
1EGS*PNL1B		1.250	1.250	1CC154BC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1ENSDBC302 DCD: <BLANK>																
1ENS*SWG2B-3		0.300	1.250	1CC154BA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	7.904
Cable: 1GTSBBC203 DCD: <BLANK>																
1EJS*LDC2B-4		0.100	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	6.890
Cable: 1HTSNNC001 DCD: <BLANK>																
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096
Cable: 1HTSNNC002 DCD: <BLANK>																
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpsRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HTSNNC002 DCD: <BLANK>																
1HTS-JB1A	ER 97-0197	0.000	0.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096
Cable: 1HTSNNC003 DCD: <BLANK>																
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096
Cable: 1HTSNNC004 DCD: <BLANK>																
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.936
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096
1HTS-JB1B	ER 97-0197	0.000	0.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.096
Cable: 1HTSNNC010 DCD: <BLANK>																
1RMS-CKT15		0.025	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.911
1RMS-CKT15		0.025	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.911
1RMS-CKT15		0.025	1.250	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.071
1RMS-CKT15		0.025	1.250	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	12.071
Cable: 1HTSNNC030 DCD: <BLANK>																
1RMS-CKT16		2.084	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	8.852
1RMS-CKT16		2.084	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	8.852
1RMS-CKT16		2.084	1.250	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	10.012
1RMS-CKT16		2.084	1.250	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	10.012
Cable: 1HVCANC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC051NB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1HVCANC515 DCD: <BLANK>																
1HVC-TIS45A		0.100	1.250	1CC920NS6		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	18.244
Cable: 1HVCANC529 DCD: <BLANK>																
1HVC-TIS42A		0.100	1.250	1CC127NC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	14.575

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCANC531 DCD: <BLANK>																
1HVC*FLT3A-P		5.000	1.250	1CC129NB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	13.344
Cable: 1HVCARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1CC023RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.675
Cable: 1HVCARC022 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.54	0.894	0.680	1.000	1.000	1.000	6.408	3.408
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.35	0.894	0.680	1.000	1.000	1.000	6.905	3.905
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.84	0.894	0.680	1.000	1.000	1.000	7.201	4.201
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.39	0.894	0.680	1.000	1.000	1.000	7.535	4.535
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.26	0.894	0.680	1.000	1.000	1.000	7.456	4.456
Cable: 1HVCARC517 DCD: <BLANK>																
5AFU		5.000	1.000	1CC059RC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCARC540 DCD: <BLANK>																
3AFU		3.000	1.000	1CC023RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.675
Cable: 1HVCARC542 DCD: <BLANK>																
1HVC*FS61A	MR 96-0020	0.050	1.250	1CC023RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	12.791
Cable: 1HVCARC543 DCD: <BLANK>																
1HVC*FS65A	MR 96-0020	0.104	1.250	1CC023RA4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	18.240
Cable: 1HVCARC543 DCD: CR 96-0628-02																
1HVC*FS65A	MR 96-0020	0.104	1.250	1CC023RA4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	18.240
Cable: 1HVCARC556 DCD: <BLANK>																
5AFU		5.000	1.000	1CC043RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCARC557 DCD: <BLANK>																
5AFU		5.000	1.000	1CC043RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCARC558 DCD: <BLANK>																
5AFU		5.000	1.000	1CC043RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCARC576 DCD: <BLANK>																
1HVC*MOD7A		0.250	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	8.041

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCARC576 DCD: <BLANK>																
1HVC*MOD7A		0.250	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	8.128
1HVC*MOD7A		0.250	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	7.757
1HVC*MOD7A		0.250	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	7.428
1HVC*MOD7A		0.250	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	6.875
Cable: 1HVCBBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1HVCBBC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.32	1.000	0.680	1.000	1.000	1.000	8.381	5.381
Cable: 1HVCBBC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
3AFU		3.000	1.000	1CC047BE2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.675
Cable: 1HVCBBC004 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVCBBC005 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.32	1.000	0.680	1.000	1.000	1.000	8.381	5.381
Cable: 1HVCBBC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVCBBC007 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVCBBC008 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	10.80	1.000	0.680	1.000	1.000	1.000	7.344	4.344
Cable: 1HVCBBC009 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.32	1.000	0.680	1.000	1.000	1.000	8.381	5.381
Cable: 1HVCBBC010 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
Cable: 1HVCBBC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCBBC013 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVCBBC017 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
3AFU		3.000	1.000	1CC019BD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1HVCBBC200 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.527
Cable: 1HVCBBC204 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.527
Cable: 1HVCBBC205 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.527
Cable: 1HVCBBC500 DCD: <BLANK>																
5AFU		5.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	4.319
Cable: 1HVCBBC501 DCD: <BLANK>																
5AFU		5.000	1.000	1CC019BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
5AFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
5AFU		5.000	1.000	1CC052BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	2.338
5AFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVCBBC502 DCD: <BLANK>																
1HVC*CH1B-CN		0.271	1.250	1CX92088		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	12.569
Cable: 1HVCBBC504 DCD: <BLANK>																
5AFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	3.066
5AFU		5.000	1.000	1CC019BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
5AFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
5AFU		5.000	1.000	1CC052BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	2.338
5AFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVCBBC504 DCD: MR 96-0028																
5AFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	3.066

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCBBC504 DCD: MR 96-0028																
SAFU		5.000	1.000	1CC019BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
SAFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	2.338
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVCBBC505 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	2.338
SAFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVCBBC508 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC519 DCD: <BLANK>																
SAFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	3.066
Cable: 1HVCBBC522 DCD: <BLANK>																
SAFU		5.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	5.755
SAFU		5.000	1.000	1CC019BC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC523 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
SAFU		5.000	1.000	1CC019BA	MR 96-0025	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
Cable: 1HVCBBC525 DCD: <BLANK>																
SAFU		5.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	10.80	1.000	0.680	1.000	1.000	1.000	7.344	2.344
Cable: 1HVCBBC531 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
SAFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC019BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCBBC532 DCD: <BLANK>																
1HVC*FN1B-HT		0.625	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.130
Cable: 1HVCBBC533 DCD: <BLANK>																
1HVC*ACU3B-H		1.150	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	20.95	1.000	0.680	1.000	1.000	1.000	14.245	13.095
1HVC*ACU3B-H		1.150	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	21.60	1.000	0.680	1.000	1.000	1.000	14.688	13.538
Cable: 1HVCBBC534 DCD: <BLANK>																
1HVC-FN2B-HT		0.625	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.130
Cable: 1HVCBBC536 DCD: <BLANK>																
1HVC*ACU1B-H		1.150	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	6.917
Cable: 1HVCBBC537 DCD: <BLANK>																
1HVC*ACU2B-H		1.150	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	6.917
Cable: 1HVCBBC539 DCD: <BLANK>																
1HVC*FN8B-HT		0.312	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.443
Cable: 1HVCBBC543 DCD: <BLANK>																
1HVC*FS62B		0.050	1.250	1CC047BE4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	14.625
1HVC*FS62B		0.050	1.250	1CC047BE2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	14.625
Cable: 1HVCBBC545 DCD: <BLANK>																
1HVC*FS61B	MR 96-0020	0.050	1.250	1CC047BE4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	14.625
1HVC*FS61B	MR 96-0020	0.050	1.250	1CC047BE1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	12.791
Cable: 1HVCBBC547 DCD: <BLANK>																
1HVC*FS36B	MR 96-0020	0.125	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	11.301
Cable: 1HVCBBC548 DCD: <BLANK>																
1HVC*FS36B	MR 96-0020	0.125	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	7.942
Cable: 1HVCBBC549 DCD: <BLANK>																
SAFU		5.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	4.023
Cable: 1HVCBBC550 DCD: <BLANK>																
1HVC*FS37B	MR 96-0020	0.062	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	8.004

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCBBC553 DCD: <BLANK>																
1HVC*FLT3B-L		3.125	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	4.942
1HVC*FLT3B-L		3.125	1.250	1CC0198G		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.55C
Cable: 1HVCBBC554 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC7		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCBBC555 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC7		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCBBC555 DCD: MR 96-0028																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC7		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCBBC556 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC7		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCBBC556 DCD: MR 96-0028																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC7		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCBBC557 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC6		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCBBC558 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC6		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCBBC558 DCD: MR 96-0028																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC6		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCB8C559 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC0528C6		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCB8C559 DCD: MR 96-0028																
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC0528C6		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCB8C560 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208F5		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCB8C561 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208F5		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCB8C562 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208F5		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCB8C566 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208D4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCB8C567 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208D4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCB8C568 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208D4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCP9C569 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208F5		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCBBC571 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC572 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BD1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC573 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BD1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC574 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BD1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC576 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208F5		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC577 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208F5		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC580 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
SAFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	2.338
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVCBBC580 DCD: MR 96-0028																
SAFU		5.000	1.000	1CC019BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
SAFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC052BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	2.338
SAFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCBBC584 DCD: <BLANK>																
SAFU		5.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	22.40	1.000	0.680	1.000	1.000	1.000	15.234	10.234
Cable: 1HVCBBC585 DCD: <BLANK>																
1HVC*FLT3B-L		3.125	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	4.942
1HVC*FLT3B-L		3.125	1.250	1CC019BG		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.550
Cable: 1HVCBBC588 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC589 DCD: <BLANK>																
SAFU		5.000	1.000	1CC019BD1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC590 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC920BF		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCBBC593 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVCBBC594 DCD: <BLANK>																
SAFU		5.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	4.319
SAFU		5.000	1.000	1CC019BB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	13.344
Cable: 1HVCBBC606 DCD: <BLANK>																
SAFU		5.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	3.213
Cable: 1HVCBNC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC051NB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1HVCBNC504 DCD: <BLANK>																
1HVC-TIS24B		0.100	1.250	1CC920NJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	9.072
1HVC-TIS24B		0.100	1.250	1CC920NJ5		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	18.244
Cable: 1HVCBNC511 DCD: <BLANK>																
1HVC-TIS24B		0.100	1.250	1CC920NR7		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	14.575
Cable: 1HVCBNC526 DCD: <BLANK>																
1HVC*FLT3B		5.000	1.250	1CC129NC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	13.344

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CSDF	MCDF	DCA	M(Amps)
Cable: 1HVCC0C002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC003O		STD(TR) [1]	30.854	6.381	12.58	1.000	0.680	1.000	1.000	1.000	8.557	5.557
3AFU		3.000	1.000	1CC0030E2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.255
Cable: 1HVCC0C500 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0030A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	15.344
3AFU		3.000	1.000	1TC003O		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
Cable: 1HVCC0C501 DCD: <BLANK>																
3AFU		3.000	1.000	1CC00308		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC003O		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
Cable: 1HVCC0C501 DCD: MR 96-0062																
3AFU		3.000	1.000	1CC00308		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC003O		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
Cable: 1HVCEBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVCF0C002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC003O		STD(TR) [1]	30.854	6.381	12.58	1.000	0.680	1.000	1.000	1.000	8.557	5.557
3AFU		3.000	1.000	1CC0030E2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.255
Cable: 1HVCNNC506 DCD: <BLANK>																
1HVC-CH4		10.413	1.250	1CC920NJ		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.500	12.229	1.817
1HVC-CH4		10.413	1.250	1CC920NJ4		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	1.000	24.458	14.046
Cable: 1HVCNNC514 DCD: <BLANK>																
1HVC-TIS131		0.100	1.250	1CC920NY		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	18.244
Cable: 1HVCNNC519 DCD: <BLANK>																
1HVC-TIS141		0.100	1.250	1CC920NJ		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.500	12.229	12.129
1HVC-TIS141		0.100	1.250	1CC920NJ8		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	1.000	24.458	24.358
Cable: 1HVCNNC557 DCD: <BLANK>																
1HVC-FN10		1.250	1.250	1CC920NJ		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.500	12.229	10.979

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCNNC558 DCD: <BLANK>																
1HVC*FLT2		5.000	1.250	1CC920NJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC500 DCD: <BLANK>																
SAFU		5.000	.000	1*JB0219		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1CC0198F		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
Cable: 1HVCXBC501 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0219		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
SAFU		5.000	1.000	1CC0198F		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
Cable: 1HVCXBC502 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0219		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC503 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0219		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC504 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0219		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC511 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208D4		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1HVCXBC512 DCD: <BLANK>																
SAFU		5.000	1.000	1CC9208D3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
Cable: 1HVCXBC513 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC514 DCD: <BLANK>																
SAFU		5.000	1.000	1*JB0025		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
SAFU		5.000	1.000	1CC9208F3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC515 DCD: <BLANK>																
SAFU		5.000	1.000	1CC0198D1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC516 DCD: <BLANK>																
SAFU		5.000	1.000	1TC0478		UNIQUE-6(TT) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	5.755

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVCXBC516 DCD: <BLANK>																
5AFU		5.000	1.000	1CC0198D		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCXBC520 DCD: <BLANK>																
1RSS*PNL102		6.250	1.250	1CC1548N		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.800	13.126	6.876
Cable: 1HVCYRC531 DCD: <BLANK>																
5AFU		5.000	1.000	1CC043RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1HVCZBC506 DCD: <BLANK>																
5AFU		5.000	1.000	1CC920B03		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
Cable: 1HVCZBC508 DCD: <BLANK>																
5AFU		5.000	1.000	1CC048BK		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
5AFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	3.066
5AFU		5.000	1.000	1CC019BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
5AFU		5.000	1.000	1*JB0141		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
5AFU		5.000	1.000	1CC052BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	2.338
5AFU		5.000	1.000	1*JB0024		STD(JB) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVFABC500 DCD: <BLANK>																
1HVF*FS32A	MR 96-0020	0.100	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	11.326
1HVF*FS32A	MR 96-0020	0.100	1.250	1CC6058A		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.800	19.567	19.467
Cable: 1HVFARC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	7.390
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	7.819
3AFU		3.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	8.690
3AFU		3.000	1.000	1CC603RA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.675
Cable: 1HVFARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1CC602RF4		STD(CO) [3]	0.000	0.000	27.00	0.966	0.790	1.000	0.860	0.800	14.182	11.182
3AFU		3.000	1.000	1WC686R06		STD(WS) [3]	0.000	0.000	27.00	1.000	0.500	1.000	0.860	0.500	5.805	2.805
3AFU		3.000	1.000	1CC602RF		STD(CO) [3]	0.000	0.000	27.00	0.966	0.790	1.000	0.860	0.500	8.864	5.864
3AFU		3.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	8.690

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVFARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	7.819
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	7.390
Cable: 1HVFARC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	5.716
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	17.60	0.894	0.560	1.000	1.000	1.000	8.816	5.815
3AFU		3.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	17.60	0.966	0.560	1.000	1.000	1.000	9.525	6.525
Cable: 1HVFARC500 DCD: <BLANK>																
5AFU		5.000	1.000	1WC686R06		STD(WS) [3]	0.000	0.000	27.00	1.000	0.500	1.000	0.860	0.500	5.805	0.805
5AFU		5.000	1.000	1CC602RF		STD(CO) [3]	0.000	0.000	27.00	0.966	0.790	1.000	0.860	0.500	8.864	3.864
5AFU		5.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	6.690
5AFU		5.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	5.819
5AFU		5.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.97	0.894	0.560	1.000	1.000	1.000	9.002	4.002
Cable: 1HVFARC501 DCD: <BLANK>																
5AFU		5.000	1.000	1WC686R06		STD(WS) [3]	0.000	0.000	27.00	1.000	0.500	1.000	0.860	0.500	5.805	0.805
5AFU		5.000	1.000	1CC602RF		STD(CO) [3]	0.000	0.000	27.00	0.966	0.790	1.000	0.860	0.500	8.864	3.864
5AFU		5.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	17.60	0.966	0.560	1.000	1.000	1.000	9.525	4.525
Cable: 1HVFARC503 DCD: <BLANK>																
5AFU		5.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	10.80	0.966	0.560	1.000	1.000	1.000	5.845	0.845
5AFU		5.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	10.80	0.894	0.560	1.000	1.000	1.000	5.410	0.410
5AFU		5.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	10.80	0.894	0.560	1.000	1.000	1.000	5.410	0.410
Cable: 1HVFARC507 DCD: <BLANK>																
5AFU		5.000	1.000	1CC076RA		STD(CO) [3]	0.000	0.900	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.255
Cable: 1HVFARC513 DCD: <BLANK>																
5AFU		5.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	6.690
5AFU		5.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	5.819
5AFU		5.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.97	0.894	0.560	1.000	1.000	1.000	9.002	4.002

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CSDF	MCDF	DCA	M(Amps)
Cable: 1HVFARC514 DCD: <BLANK>																
5AFU		5.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	10.80	0.966	0.560	1.000	1.000	1.000	5.845	0.845
5AFU		5.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	10.80	0.894	0.560	1.000	1.000	1.000	5.410	0.410
5AFU		5.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	10.80	0.894	0.560	1.000	1.000	1.000	5.410	0.410
Cable: 1HVFARC522 DCD: <BLANK>																
1EHS*MCC8A-1		0.125	1.250	1TC600R		STD(TR) [3]	20.863	10.109	17.97	0.894	0.560	1.000	1.000	1.000	9.002	8.877
1EHS*MCC8A-1		0.125	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	10.694
1EHS*MCC8A-1		0.125	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	11.565
Lable: 1HVFARC555 DCD: <BLANK>																
5AFU		5.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	5.390
5AFU		5.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	5.819
5AFU		5.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	6.690
Cable: 1HVFBBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	10.80	1.000	0.680	1.000	1.000	1.000	7.344	4.344
Cable: 1HVFBBC002 DCD: <BLANK>																
3AFU		3.000	1.000	1CC605BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.700	1.000	0.860	0.800	14.675	11.675
Cable: 1HVFBBC005 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.48	1.000	0.650	1.000	1.000	1.000	6.160	3.160
Cable: 1HVFBBC200 DCD: <BLANK>																
1H13*P730-CR		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.361
Cable: 1HVFBBC516 DCD: <BLANK>																
1H13*P746-A5		3.750	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	5.569
Cable: 1HVFBBC557 DCD: <BLANK>																
5AFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	3.066
Cable: 1HVFBRC500 DCD: <BLANK>																
1HVF*FS32B	MR 96-0020	0.104	1.250	1TC600R		STD(TR) [3]	20.863	10.109	28.80	0.894	0.560	1.000	1.000	1.000	14.425	14.322
1HVF*FS32B	MR 96-0020	0.104	1.250	1TC601R		STD(TR) [3]	14.879	15.043	28.80	0.894	0.560	1.000	1.000	1.000	14.425	14.322
1HVF*FS32B	MR 96-0020	0.104	1.250	1TC602R		STD(TR) [3]	13.999	16.161	28.80	0.966	0.560	1.000	1.000	1.000	15.587	15.483

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVFBRC500 DCD: <BLANK>																
1HVF*FS32B	MR 96-0020	0.104	1.250	1CC603RA		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.800	19.567	19.463
Cable: 1HVFNBC501 DCD: <BLANK>																
1EHS*MCC88-H		1.250	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	22.40	1.000	0.680	1.000	1.000	1.000	15.234	13.984
Cable: 1HVFNNC007 DCD: <BLANK>																
3AFU		3.000	1.000	1CC604NC3		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1HVFNNC010 DCD: <BLANK>																
3AFU		3.000	1.000	1CC604NC3		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1HVFNNC031 DCD: <BLANK>																
3AFU		3.000	1.000	1CK602NC		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1HVFNNC525 DCD: <BLANK>																
1HVF-UC3-HTR		0.312	1.250	1CK602NC		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	11.172
Cable: 1HVFNRC502 DCD: <BLANK>																
1HVF*FN3A-HT		0.938	1.250	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	9.452
1HVF*FN3A-HT		0.938	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	9.882
1HVF*FN3A-HT		0.938	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	10.752
Cable: 1HVFNRC503 DCD: <BLANK>																
1HVF*FN7A-HT		0.312	1.250	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	10.077
1HVF*FN7A-HT		0.312	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	10.507
1HVF*FN7A-HT		0.312	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	11.377
Cable: 1HVFNRC504 DCD: <BLANK>																
1HVF*FS182	MR 96-0020	0.104	1.250	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	10.286
1HVF*FS182	MR 96-0020	0.104	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	10.715
1HVF*FS182	MR 96-0020	0.104	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	11.586
1HVF*FS182	MR 96-0020	0.104	1.250	1CC602RF		STD(CO) [3]	0.000	0.000	27.00	0.966	0.790	1.000	0.860	0.500	8.864	8.760
1HVF*FS182	MR 96-0020	0.104	1.250	1WC686R06		STD(WS) [3]	0.000	0.000	27.00	1.000	0.500	1.000	0.860	0.500	5.805	5.791
1HVF*FS182	MR 96-0020	0.104	1.250	1CC602RF4		STD(CO) [3]	0.000	0.000	27.00	0.966	0.790	1.000	0.860	0.800	14.182	14.079

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVKARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1CC023RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1HVKARC016 DCD: <BLANK>																
3AFU		3.000	1.000	1CC023RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1HVKARC539 DCD: <BLANK>																
3AFU		3.000	1.000	1CC023RA2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1HVKBBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.32	1.000	0.680	1.000	1.000	1.000	8.381	5.381
Cable: 1HVKBBC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
3AFU		3.000	1.000	1CC047BE1		STD(CO) [3]	0.000	0.000	27.60	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1HVKBBC004 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVKBBC005 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(12) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVKBBC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	3.990
Cable: 1HVKBBC007 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.48	1.000	0.650	1.000	1.000	1.000	6.160	3.160
Cable: 1HVKBBC008 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVKBBC009 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	10.80	1.000	0.680	1.000	1.000	1.000	7.344	4.344
Cable: 1HVKBBC010 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
Cable: 1HVKBBC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVKBBC012 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
Cable: 1HVKBBC013 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVKBBC016 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
3AFU		3.000	1.000	1CC047BE1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1HVKBBC017 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVKBBC018 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVKBBC019 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVKBBC200 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.527
Cable: 1HVKBBC202 DCD: <BLANK>																
1HVK*CHL1B-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	3.855
Cable: 1HVKBBC501 DCD: <BLANK>																
1HVK*CHL1B-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.373
Cable: 1HVKBBC502 DCD: <BLANK>																
1HVK*CHL1B-P		2.912	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.111
Cable: 1HVKBBC504 DCD: <BLANK>																
1HVK*P1B-HTR		1.875	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	8.880
Cable: 1HVKBBC508 DCD: <BLANK>																
1HVK*TV16B	MR 96-0020	0.050	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	11.376
1HVK*TV16B	MR 96-0020	0.050	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	22.40	1.000	0.680	1.000	1.000	1.000	15.234	15.184
Cable: 1HVKBBC509 DCD: <BLANK>																
1HVK*TV16B	MR 96-0020	0.050	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.705

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVKBBC510 DCD: <BLANK>																
1HVK*TV17B	MR 96-0020	0.025	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.730
Cable: 1HVKBBC513 DCD: <BLANK>																
1HVK*CHL1B-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	4.077
Cable: 1HVKBBC514 DCD: <BLANK>																
1HVK*CHL1B-P		11.440	1.100	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	-0.014
Cable: 1HVKBBC515 DCD: <BLANK>																
1HVK*CHL1B-P		9.163	1.100	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	2.263
Cable: 1HVKBBC518 DCD: <BLANK>																
1HVK*P1D-HTR		0.938	1.250	1TK002B		UNIQUE-6(TR) [3]	20.514	10.312	20.95	1.000	0.680	1.000	1.000	1.000	14.245	13.308
1HVK*P1D-HTR		0.938	1.250	1TK001B		UNIQUE-6(TR) [3]	12.110	19.166	21.60	1.000	0.680	1.000	1.000	1.000	14.688	13.750
Cable: 1HVKBBC519 DCD: <BLANK>																
1HVK*P1B-HTR		1.875	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	22.46	1.000	0.680	1.000	1.000	1.000	15.234	13.359
Cable: 1HVKBBC520 DCD: <BLANK>																
1HVK*CHL1B-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.154
Cable: 1HVKBBC521 DCD: <BLANK>																
1HVK*CHL1B-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	[illegible]		11.426	8.514
Cable: 1HVKBBC531 DCD: <BLANK>																
1HVK*CHL1B-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.154
Cable: 1HVKBBC537 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVKBBC538 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1HVKBBC539 DCD: <BLANK>																
3AFU		3.000	1.000	1CC047BE1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.341	9.841
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1HVKBBC540 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	N(Amps)
Cable: 1HVKBBC543 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1HVKBWC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CK920WK		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	11.675
Cable: 1HVKDBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1HVKDBC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVKDBC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1HVKDBC004 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.067
Cable: 1HVKDBC200 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.527
Cable: 1HVKDBC202 DCD: <BLANK>																
1HVK*CHL1D-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	3.855
Cable: 1HVKDBC501 DCD: <BLANK>																
1HVK*CHL1D-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.373
Cable: 1HVKDBC502 DCD: <BLANK>																
1HVK*CHL1D-P		2.912	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.111
1HVK*CHL1D-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	3.855
Cable: 1HVKDBC506 DCD: <BLANK>																
1HVK*CHL1D-P		9.163	1.100	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	2.263
Cable: 1HVKDBC507 DCD: <BLANK>																
1HVK*CHL1D-P		11.440	1.100	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	-0.074
Cable: 1HVKDBC509 DCD: <BLANK>																
1HVK*CHL1D-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.154

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVKDBC510 DCD: <BLANK>																
1HVK*CHL1D-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	8.514
Cable: 1HVKDBC511 DCD: <BLANK>																
1HVK*CHL1D-P		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.154
Cable: 1HVNARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1HVNBBC003 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048C		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC5048C	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC5048C2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
3AFU		3.000	1.000	1CC5048C2	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1HVNFBC003 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1HVPARC207 DCD: <BLANK>																
1EGS*PNL3A	MR 96-0020	1.250	1.250	1CC907RA1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
1EGS*PNL3A	MR 96-0020	1.250	1.250	1CC907RA1	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	5.170
Cable: 1HVPBBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1HVPBBC200 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC154BE		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013
Cable: 1HVPBBC204 DCD: <BLANK>																
1H13*P744-A2		1.550	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	6.516
Cable: 1HVPBBC205 DCD: <BLANK>																
1EGS*PNL3B-B		1.550	1.250	1CC908BA1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.400	6.563	5.013

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVPBBC508 DCD: <BLANK>																
1HVP*FN2B-HT		2.875	1.250	1CC1548B		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	1.000	16.407	13.532
Cable: 1HVPBBC509 DCD: <BLANK>																
3AFU		3.000	1.000	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1HVPBBC600 DCD: <BLANK>																
1H13*P744-B5		0.625	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	6.143
Cable: 1HVPC0C003 DCD: <BLANK>																
5AFU		5.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	.000	0.790	1.000	0.860	0.350	6.420	1.420
5AFU		5.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	4.512
5AFU		5.000	1.000	1CC0020J		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
5AFU		5.000	1.000	1CC0020J	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	9.675
Cable: 1HVPC0C004 DCD: <BLANK>																
5AFU		5.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
5AFU		5.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.90	1.000	0.680	1.000	1.000	1.000	7.412	2.412
5AFU		5.000	1.000	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
5AFU		5.000	1.000	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	1.420
Cable: 1HVPC0C005 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	10.68	1.000	0.680	1.000	1.000	1.000	7.263	4.263
3AFU		3.000	1.000	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.3[illegible]	6.420	3.420
3AFU		3.000	1.000	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1HVPC0C006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC003O		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	6.710
Cable: 1HVPC0C008 DCD: <BLANK>																
3AFU		3.000	1.000	1TC003O		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
3AFU		3.000	1.000	1CC0[illegible]0E2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.255
Cable: 1HVPC0C501 DCD: <BLANK>																
1HVP*FN3A-HT		2.812	1.250	1CC[illegible]20C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.608

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVPC0C501 DCD: <BLANK>																
1HVP*FN3A-HT		2.812	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.699
1HVP*FN3A-HT		2.812	1.250	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.608
1HVP*FN3A-HT		2.812	1.250	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.608
Cable: 1HVPC0C502 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	5.560
3AFU		3.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	19.81	1.000	0.680	1.000	1.000	1.000	13.473	10.473
3AFU		3.000	1.000	1CC9090A3		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	5.560
3AFU		3.000	1.000	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	5.560
Cable: 1HVPC0C503 DCD: <BLANK>																
3AFU		3.000	1.000	1CC9090A3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC9090A3	MR 88-0220-F	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.512
Cable: 1HVPC0C508 DCD: <BLANK>																
1HVP*FN6C-HT		0.312	1.250	1CK9090A1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	7.942
1HVP*FN6C-HT		0.312	1.250	1CK9090A1	MR 88-0220-F	STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	7.942
Cable: 1HVPN0C600 DCD: <BLANK>																
1H13*P712-CN		1.375	1.250	1TC0010		STD(TR) [1]	3.570	80.611	18.40	1.000	0.680	1.000	1.000	1.000	12.512	11.137
Cable: 1HVRA0C001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	13.83	1.000	0.680	1.000	1.000	1.000	9.401	6.401
Cable: 1HVRARC504 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	2.069
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	2.069
Cable: 1HVRARC568 DCD: <BLANK>																
1HVR*UC1A-HT		2.500	1.250	1TC500R		STD(TR) [3]	54.029	3.302	16.79	1.000	0.560	1.000	1.000	1.000	9.403	6.903
1HVR*UC1A-HT		2.500	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	16.79	1.000	0.560	1.000	1.000	1.000	9.403	6.903
1HVR*UC1A-HT		2.500	1.250	1TC502R		STD(TR) [3]	29.950	6.608	23.75	1.000	0.560	1.000	1.000	1.000	13.302	10.802

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVRARC568 DCD: <BLANK>																
1HVR*UC1A-HT		2.500	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	23.75	1.000	0.560	1.000	1.000	1.000	13.302	10.802
Cable: 1HVRARC573 DCD: <BLANK>																
1RMS*CAB21A		6.250	1.250	1CC076RA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	2.005
Cable: 1HVRBBC208 DCD: <BLANK>																
1EJS*LDC28-9		2.912	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	3.855
Cable: 1HVRCNC508 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	5.512
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	5.512
Cable: 1HVRCNC511 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
Cable: 1HVRCNC512 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
Cable: 1HVRCNC513 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
Cable: 1HVRCNC514 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRCNC515 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVRCNC516 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRNBC506 DCD: <BLANK>																
1HVR*UC1B-HT		2.500	1.250	1CC504BC		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.500	12.229	9.729
1HVR*UC1B-HT		2.500	1.250	1CC504BC	MR 96-0020	STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.500	12.229	9.729
Cable: 1HVRNNC02[illegible] CD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRNNC507 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
Cable: 1HVRNNC509 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
Cable: 1HVRNNC513 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.92	1.000	0.560	1.000	1.000	1.000	9.476	6.476
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.92	1.000	0.560	1.000	1.000	1.000	9.476	6.476
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRNNC532 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVRNNC532 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRNNC533 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRNNC534 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRNNC538 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1HVRNNC540 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	7.936
Cable: 1HVRNOC500 DCD: <BLANK>																
1HVR*UC5-HTR		0.938	1.250	1CK939OA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	7.266
Cable: 1HVRNOC500 DCD: CR 95-0887																
1HVR*UC5-HTR		0.938	1.250	1CK939OA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	7.266
Cable: 1HVYANC503 DCD: <BLANK>																
1HVY-FN9-HTR		0.287	1.250	1CK600NA1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.500	6.438	6.151
Cable: 1HVYARC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.54	0.894	0.680	1.000	1.000	1.000	6.408	3.408

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVYARC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.35	0.894	0.680	1.000	1.000	1.000	6.905	3.905
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.84	0.894	0.680	1.000	1.000	1.000	7.201	4.201
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.39	0.894	0.680	1.000	1.000	1.000	7.535	4.535
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.26	0.894	0.680	1.000	1.000	1.000	7.456	4.456
Cable: 1HVYARC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
Cable: 1HVYARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.54	0.894	0.680	1.000	1.000	1.000	6.408	3.408
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.35	0.894	0.680	1.000	1.000	1.000	6.905	3.905
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.84	0.894	0.680	1.000	1.000	1.000	7.201	4.201
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.39	0.894	0.680	1.000	1.000	1.000	7.535	4.535
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.26	0.894	0.680	1.000	1.000	1.000	7.456	4.456
Cable: 1HVYARC004 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
Cable: 1HVYARC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
Cable: 1HVYARC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
Cable: 1HVYARC014 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	14.57	0.894	0.680	1.000	1.000	1.000	8.861	5.861
3AFU		3.000	1.000	1CC958RC1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
3AFU		3.000	1.000	1CC958RC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVYARC040 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	14.57	0.894	0.680	1.000	1.000	1.000	8.861	5.861
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	15.19	0.894	0.680	1.000	1.000	1.000	9.241	6.241
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	15.90	0.894	0.680	1.000	1.000	1.000	9.669	6.669
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	15.73	0.894	0.680	1.000	1.000	1.000	9.568	6.568
Cable: 1HVYARC507 DCD: <BLANK>																
1HVY*FS17A	MR 96-0020	0.050	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	8.173
Cable: 1HVYARC508 DCD: <BLANK>																
1HVY*FS21A	MR 96-0020	0.050	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	8.173
Cable: 1HVYARC511 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1HVYARC515 DCD: <BLANK>																
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.26	0.894	0.680	1.000	1.000	1.000	7.456	4.456
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.39	0.894	0.680	1.000	1.000	1.000	7.535	4.535
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.84	0.894	0.680	1.000	1.000	1.000	7.201	4.201
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.35	0.894	0.680	1.000	1.000	1.000	6.905	3.905
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.54	0.894	0.680	1.000	1.000	1.000	6.408	3.408
Cable: 1HVYBNC511 DCD: <BLANK>																
1HVY-FN10-HT		0.287	1.250	1CK600NA1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.500	6.438	6.151
1HVY-FN10-HT		0.287	1.250	1CK600NA6		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.800	10.301	10.014
1HVY-FN10-HT		0.287	1.250	1CK600NA7		UNIQUE-2(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.800	10.301	10.014
Cable: 1HVYCOC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	12.84	1.000	0.680	1.000	1.000	1.000	8.732	5.732

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVYCOC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0030E2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.255
Cable: 1HVYCOC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
3AFU		3.000	1.000	1CC00300D1		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1HVYCOC005 DCD: <BLANK>																
2AFU		2.000	1.000	1CK0010F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
2AFU		2.000	1.000	1CK0010F1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
2AFU		2.000	1.000	1CK0010F2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
Cable: 1HVYCOC006 DCD: <BLANK>																
2AFU		2.000	1.000	1CK0010F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
2AFU		2.000	1.000	1CK0010F1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
2AFU		2.000	1.000	1CK0010F2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
Cable: 1HVYCOC500 DCD: <BLANK>																
1HVY*FS17E	MR 96-0020	0.050	1.250	1CK0010F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.333
1HVY*FS17E	MR 96-0020	0.050	1.250	1CK0010F1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.333
1HVY*FS17E	MR 96-0020	0.050	1.250	1CK0010F2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.333
Cable: 1HVYCOC501 DCD: <BLANK>																
1HVY*FS17F	MR 96-0020	0.050	1.250	1CK0010F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.333
1HVY*FS17F	MR 96-0020	0.050	1.250	1CK0010F1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.333
1HVY*FS17F	MR 96-0020	0.050	1.250	1CK0010F2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.333
Cable: 1HVYCRC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.54	0.894	0.680	1.000	1.000	1.000	6.408	3.408
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.35	0.894	0.680	1.000	1.000	1.000	6.905	3.905
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.84	0.894	0.680	1.000	1.000	1.000	7.201	4.201
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.39	0.894	0.680	1.000	1.000	1.000	7.535	4.535
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.26	0.894	0.680	1.000	1.000	1.000	7.456	4.456

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1HVYCRC004 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
Cable: 1HVYCRC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
Cable: 1HVYCRC501 DCD: <BLANK>																
1HVY*FS21C		0.050	1.250	1TC205R		UNIQUE-2(TR [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	8.173
Cable: 1HVYNOC501 DCD: <BLANK>																
1HVY*FN1C-HT		0.312	1.250	1CK0010F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.071
1HVY*FN1C-HT		0.312	1.250	1CK0010F1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.071
1HVY*FN1C-HT		0.312	1.250	1CK0010F2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.071
Cable: 1HVYZNC501 DCD: <BLANK>																
1HVY-TIS159		0.100	1.250	1CC270NH1		UNIQUE-1&2(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.800	10.301	10.201
Cable: 1HVYZNC544 DCD: <BLANK>																
1HVY-CH14-HT		0.625	1.250	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.450	5.794	5.169
Cable: 1HVYZNC545 DCD: <BLANK>																
1HVY-CH18-HT		0.625	1.250	1CK600NM1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.450	5.794	5.169
Cable: 1HVYZNC547 DCD: <BLANK>																
1HVY-CH13-HT		0.625	1.250	1CK600NA1		UNIQUE-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.500	6.438	5.813
Cable: 1IASARC508 DCD: <BLANK>																
1H13*P743		1.500	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	10.190
1H13*P743		1.500	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	9.319
1H13*P743		1.500	1.250	1TC600R		STD(TR) [3]	20.863	10.109	17.97	0.894	0.560	1.000	1.000	1.000	9.002	7.502
Cable: 1IASARC513 DCD: <BLANK>																
1IAS*SOV45A		1.000	1.250	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	9.389
1IAS*SOV45A		1.000	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	9.819
1IAS*SOV45A		1.000	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	10.690
Cable: 1ICSABC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0068A		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1ICSABC004 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1ICSCBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1ICSCBC004 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1ICSEBC001 DCD: <BLANK>																
1C61*PNLP001		1.250	1.250	1CC006BC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	7.922
Cable: 1ICSEBC003 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1ICSNNC602 DCD: <BLANK>																
10AFU		10.000	1.000	1CC074NA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	2.841
Cable: 1ISMNTC507 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1JCBNBC500 DCD: <BLANK>																
1JCB*RAK1		2.500	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.567
Cable: 1JPBNRC501 DCD: <BLANK>																
1JPB*RAK2		0.000	1.000	1CC838RP		STD(CO) [3]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	1.000	16.40*	16.407
Cable: 1LACNBC500 DCD: <BLANK>																
1LAC*J8RSP2		2.760	1.000	1CC920BE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	15.584
Cable: 1LSVARC015 DCD: <BLANK>																
3AFU		3.000	1.000	1CC827RR		STD(CO) [3]	0.000	0.000	27.00	0.942	0.790	1.000	0.860	0.800	13.829	10.829
Cable: 1LSVBBC509 DCD: <BLANK>																
1LSV*PV10BCN	MR 96-0059	0.025	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	8.042
Cabl.: 1LSVBBC528 DCD: <BLANK>																
1LSV*PNL55B	MR 96-0059	2.500	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.567
1LSV*PNL55B	MR 96-0059	2.500	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	8.255

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1LSVBBC607 DCD: <BLANK>																
1LSV*C3B	MR 96-0059	1.250	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	6.817
Cable: 1MHWARC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	14.57	0.894	0.680	1.000	1.000	1.000	8.861	5.861
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	15.19	0.894	0.680	1.000	1.000	1.000	9.241	6.241
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	15.90	0.894	0.680	1.000	1.000	1.000	9.669	6.669
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	15.73	0.894	0.680	1.000	1.000	1.000	9.568	6.568
Cable: 1MS1BBC011 DCD: <BLANK>																
3AFU		3.000	1.000	1CC939BB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1MS1BBC513 DCD: <BLANK>																
10AFU		10.000	1.000	1CC939BB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	2.841
Cable: 1MSSAJC502 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSAJC503 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSAJC504 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSAJC505 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSAJC514 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSAJC515 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSAJC516 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSAJC517 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JE		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1MSSBJC502 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSBJC503 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSBJC504 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSBJC505 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940JB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1MSSNNC011 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
Cable: 1MSSNNC014 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
Cable: 1MSSNNC017 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
Cable: 1MSSNNC537 DCD: <BLANK>																
1B21-F001-HT		0.262	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.673
1B21-F001-HT		0.262	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.673
Cable: 1MSSNNC538 DCD: <BLANK>																
1B21-F005-HT		0.525	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.411
1B21-F005-HT		0.525	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.411
Cable: 1NMSBJC600 DCD: <BLANK>																
1AFU		1.000	1.000	1CC940JK		STD(CO) [3]	0.000	0.000	16.40	1.000	0.790	1.000	0.860	0.500	5.571	4.571
Cable: 1NMSCKC600 DCD: <BLANK>																
1AFU		1.000	1.000	1CC918KB		STD(CO) [1]	0.000	0.000	16.40	1.000	0.790	1.000	0.860	0.500	5.571	4.571

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1NMSCKC602 DCD: <BLANK>																
1AFU		1.000	1.000	1CC918KB		STD(CO) [1]	0.000	0.000	16.40	1.000	0.790	1.000	0.860	0.500	5.571	4.571
Cable: 1NMSCKC604 DCD: <BLANK>																
1AFU		1.000	1.000	1CC918KB		STD(CO) [1]	0.000	0.000	16.40	1.000	0.790	1.000	0.860	0.500	5.571	4.571
Cable: 1POGNNC519 DCD: <BLANK>																
1H22*PNLP011		2.500	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	8.436
1H22*PNLP011		2.500	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	8.436
Cable: 1POGNNC520 DCD: <BLANK>																
1H22*PNLP002		2.500	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	8.436
1H22*PNLP002		2.500	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	8.436
1H22*PNLP002		2.500	1.250	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.596
1H22*PNLP002		2.500	1.250	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.596
Cable: 1RCSANC518 DCD: <BLANK>																
1B33-D003A		1.600	1.250	1TC529N		STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	6.912
1B33-D003A		1.600	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	6.912
Cable: 1RCSANC519 DCD: <BLANK>																
1B33-D003A		1.600	1.250	1TC529N		STD(TR) [3]	23.117	8.960	10.80	1.000	0.560	1.000	1.000	1.000	6.048	4.448
1B33-D003A		1.600	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	10.80	1.000	0.560	1.000	1.000	1.000	6.048	4.448
Cable: 1RCSANC520 DCD: <BLANK>																
1B33-D003A		1.600	1.250	1TC529N		STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	6.912
1B33-D003A		1.600	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	6.912
Cable: 1RCSANC521 DCD: <BLANK>																
1B33-D003A		1.600	1.250	1TC529N		STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	6.912
1B33-D003A		1.600	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	15.20	1.000	0.560	1.000	1.000	1.000	8.512	6.912
Cable: 1RCSARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 95-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879

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Derated Cables (Under Rated) - Wrapped RWs Only

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RCSARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1RCSARC007 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1RCSARC010 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1RCSARC013 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1RCSARC300 DCD: <BLANK>																
1H13*P715-D2		0.375	1.250	1CC600RB		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.008
1H13*P715-D2		0.375	1.250	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	8.342
Cable: 1RCSARC301 DCD: <BLANK>																
1H13*P715-D2		0.375	1.250	1CC600RB		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.008
1H13*P715-D2		0.375	1.250	1TC600R		STD(TR) [3]	20.863	10.109	15.20	0.894	0.560	1.000	1.000	1.000	7.613	7.238
Cable: 1RCSARC302 DCD: <BLANK>																
5AFU		5.000	1.000	1CC600RB		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	2.383
5AFU		5.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	5.390
Cable: 1RCSARC500 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CACF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RCSARC500 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	6.391
Cable: 1RCSARC600 DCD: <BLANK>																
5AFU		5.000	1.000	1CC918RA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	1.000	16.407	11.407
Cable: 1RCSBBC600 DCD: <BLANK>																
5AFU		5.000	1.000	1CC918BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	13.344
Cable: 1RCSBBC601 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940BF		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	13.344
Cable: 1RDSBRC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	5.716
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	17.60	0.894	0.560	1.000	1.000	1.000	8.816	5.815
3AFU		3.000	1.000	1TC602R		STD(TR) [3]	13.999	16.161	17.60	0.966	0.560	1.000	1.000	1.000	9.525	6.525
Cable: 1RHSARC043 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC504R		STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1RHSARC045 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC504R		STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
3AFU		3.000	1.000	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	21.60	1.000	0.560	1.000	1.000	1.000	12.096	9.096
Cable: 1RHSARC055 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC504R		STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RHSARC055 DCD: <BLANK>																
3AFU		3.000	1.000	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1RHSARC071 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC504R		STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC504R	MR 96-0020	STD(TR) [3]	8.395	29.490	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1RHSARC502 DCD: <BLANK>																
1E12*AOVF041	MR 96-0020	0.512	1.250	1TC500R		STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	4.556
1E12*AOVF041	MR 96-0020	0.512	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	4.556
1E12*AOVF041	MR 96-0020	0.512	1.250	1TC502R		STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	6.659
1E12*AOVF041	MR 96-0020	0.512	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	12.81	1.000	0.560	1.000	1.000	1.000	7.171	6.659
Cable: 1RHSARC534 DCD: <BLANK>																
5AFU		5.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	0.752
5AFU		5.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	0.752
5AFU		5.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.53	1.000	0.560	1.000	1.000	1.000	8.137	3.137
5AFU		5.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.53	1.000	0.560	1.000	1.000	1.000	8.137	3.137
Cable: 1RHSBBC020 DCD: <BLANK>																
1EHS*MCC2F-4		6.050	1.100	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	2.016
Cable: 1RHSBBC031 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1RHSBBC032 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1RHSBBC035 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1RHSBBC036 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	LADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RHSBBC037 DCD: <BLANK>																
3AFU		3.000	1.000	1CC006BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1RHSNNC502 DCD: <BLANK>																
1ICS-PNL101		1.250	1.250	1CC129NA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	7.922
Cable: 1RHSNNC503 DCD: <BLANK>																
3AFU		3.000	1.000	1CC129NA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1RMSARC500 DCD: <BLANK>																
1RMS*REX5A		1.250	1.250	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	7.466
1RMS*REX5A		1.250	1.250	1TC601R		STD(TR) [3]	14.879	15.043	17.60	0.894	0.560	1.000	1.000	1.000	8.816	7.565
1RMS*REX5A		1.250	1.250	1TC602R		STD(TR) [3]	13.999	16.161	17.60	0.966	0.560	1.000	1.000	1.000	9.525	8.275
Cable: 1RMSARC501 DCD: <BLANK>																
1RMS*RE5A		1.350	1.250	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	9.040
1RMS*RE5A		1.350	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	9.469
1RMS*RE5A		1.350	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	10.340
Cable: 1RMSARC504 DCD: <BLANK>																
1RMS*REX5A		1.250	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	10.440
Cable: 1RMSARC505 DCD: <BLANK>																
1RMS*CAB20A		2.500	1.250	1TC602R		STD(TR) [3]	13.999	16.161	28.80	0.966	0.560	1.000	1.000	1.000	15.587	13.087
Cable: 1RMSARC506 DCD: <BLANK>																
1RMS*R121A		4.375	1.250	1TC500R		STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	1.377
1RMS*R121A		4.375	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	1.377
Cable: 1RMSARC507 DCD: <BLANK>																
1RMS*R121A		4.375	1.250	1CC076RA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	3.880
Cable: 1RMSARC508 DCD: <BLANK>																
1RMS*RE5A		1.350	1.250	1CC076RA		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.450	11.006	9.656
1RMS*RE5A		1.350	1.250	1TC600R		STD(TR) [3]	20.863	10.109	28.80	0.894	0.560	1.000	1.000	1.000	14.425	13.075
1RMS*RE5A		1.350	1.250	1TC601R		STD(TR) [3]	14.879	15.043	28.80	0.894	0.560	1.000	1.000	1.000	14.425	13.075
1RMS*RE5A		1.350	1.250	1TC602R		STD(TR) [3]	13.999	16.161	28.80	0.966	0.560	1.000	1.000	1.000	15.587	14.237

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RMSARC511 DCD: <BLANK>																
1RMS*REX5A		1.250	1.250	1TC600R		STD(TR) [3]	20.863	10.109	17.97	0.894	0.560	1.000	1.000	1.000	9.002	7.752
1RMS*REX5A		1.250	1.250	1TC601R		STD(TR) [3]	14.879	15.043	21.60	0.894	0.560	1.000	1.000	1.000	10.819	9.569
1RMS*REX5A		1.250	1.250	1TC602R		STD(TR) [3]	13.999	16.161	21.60	0.966	0.560	1.000	1.000	1.000	11.690	10.440
Cable: 1RMSNBC508 DCD: <BLANK>																
1RMS*RE13B	MR 96-0020	12.500	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	28.61	1.000	0.650	1.000	1.000	1.000	18.598	6.098
1RMS*RE13B	MR 96-0020	12.500	1.250	1CC048BK		STD(CO) [3]	0.000	0.000	50.00	1.000	0.790	1.000	0.860	0.800	27.176	14.676
Cable: 1RMSNBC525 DCD: <BLANK>																
1RMS*REY13B		12.500	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	-1.074
Cable: 1RMSNNC562 DCD: <BLANK>																
1RMS-CAB170		1.250	1.250	1CC920NJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	7.922
Cable: 1RMSNNC587 DCD: <BLANK>																
1RMS*JB272		0.469	1.250	1CC127NC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	14.206
Cable: 1RMSNRC502 DCD: <BLANK>																
1RMS*RE5A-PC		27.500	1.250	1TC600R		STD(TR) [3]	20.863	10.109	47.82	0.894	0.560	1.000	1.000	1.000	23.954	-3.546
1RMS*RE5A-PC		27.500	1.250	1TC601R		STD(TR) [3]	14.879	15.043	51.20	0.894	0.560	1.000	1.000	1.000	25.645	-1.855
1RMS*RE5A-PC		27.500	1.250	1TC602R		STD(TR) [3]	13.999	16.161	51.20	0.966	0.560	1.000	1.000	1.000	27.710	0.210
Cable: 1RMSNRC505 DCD: <BLANK>																
1RMS*CAB20A		2.500	1.250	1CC076RA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.755
Cable: 1RMSNRC506 DCD: <BLANK>																
1RMS*CAB16A		2.500	1.250	1CC076RA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.755
Cable: 1RMSNRC507 DCD: <BLANK>																
1RMS*CAB21A		6.250	1.250	1CC076RA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	2.005
Cable: 1RMSNRC514 DCD: <BLANK>																
1RMS*RE111		15.000	1.250	1TC500R		STD(TR) [3]	54.029	3.302	27.33	1.000	0.560	1.000	1.000	1.000	15.305	0.305
1RMS*RE111		15.000	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	27.33	1.000	0.560	1.000	1.000	1.000	15.305	0.305
1RMS*RE111		15.000	1.250	1TC503R		STD(TR) [3]	13.736	16.526	51.20	1.000	0.560	1.000	1.000	1.000	28.672	13.672
1RMS*RE111		15.000	1.250	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	51.20	1.000	0.560	1.000	1.000	1.000	28.672	13.672

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RMSNRC519 DCD: <BLANK>																
1RMS*RE125		2.500	1.000	1CC076RA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.755
Cable: 1RMSNRC520 DCD: <BLANK>																
1RMS*RE125		2.500	1.000	1CC076RA		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.450	11.006	8.506
Cable: 1RMSNRC525 DCD: <BLANK>																
1RMS*JB270		0.625	1.250	1CC076RB		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	17.719
Cable: 1RMSNRC534 DCD: <BLANK>																
1RMS*RE112		15.000	1.250	1TC500R		STD(TR) [3]	54.029	3.302	27.33	1.000	0.560	1.000	1.000	1.000	15.305	0.305
1RMS*RE112		15.000	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	27.33	1.000	0.560	1.000	1.000	1.000	15.305	0.305
Cable: 1RMSNRC547 DCD: <BLANK>																
1RMS*RE111-J		2.500	1.000	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	4.138
1RMS*RE111-J		2.500	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	4.138
Cable: 1RPSARC601 DCD: <BLANK>																
5AFU		5.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	1.638
5AFU		5.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	1.638
5AFU		5.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	4.391
5AFU		5.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	16.77	1.000	0.560	1.000	1.000	1.000	9.391	4.391
Cable: 1RPSATC500 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1RPSATC501 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1RPSATC502 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1RPSATC503 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1RPSBJC500 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC940JA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RPSBJC507 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC940JA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641
Cable: 1RPSBJC590 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC940JA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641
Cable: 1RPSBJC591 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC940JA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641
Cable: 1RPSBTC500 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1RPSBTC501 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1RPSBTC502 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1RPSBTC503 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	7.841
Cable: 1RPSBTC511 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	4.172
Cable: 1RPSBTC515 DCD: <BLANK>																
5AFU		5.000	1.000	1CC940TF		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	13.344
Cable: 1RPSCKC500 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC918KA		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641
Cable: 1RPSCKC543 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC918KA		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641
Cable: 1RPSCKC588 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC918KA		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641
Cable: 1RPSCKC589 DCD: <BLANK>																
1RPS*HCU		6.200	1.250	1CC918KA		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	6.641
Cable: 1RPSCUC511 DCD: <BLANK>																
5AFU		5.000	1.000	1CC918UA		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	13.344

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1RPSNRC502 DCD: <BLANK>																
1C11*A0VF010		1.275	1.250	1TC500R		STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	3.794
1C11*A0VF010		1.275	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.05	1.000	0.560	1.000	1.000	1.000	5.069	3.794
Cable: 1RPSNRC507 DCD: <BLANK>																
1C11*A0VF010		1.275	1.250	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.294
1C11*A0VF010		1.275	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.294
1C11*A0VF010		1.275	1.250	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	6.604
1C11*A0VF010		1.275	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	6.604
Cable: 1RPSNRC513 DCD: <BLANK>																
1C11*A0VF010		1.275	1.250	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.294
1C11*A0VF010		1.275	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.294
Cable: 1RSSWNC501 DCD: <BLANK>																
1RSS*PNL102		6.250	1.250	1CC127NC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.800	14.675	8.425
Cable: 1SCCARC527 DCD: <BLANK>																
1SCC*JB0067-		1.800	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.01	0.894	0.680	1.000	1.000	1.000	7.306	5.506
1SCC*JB0067-		1.800	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	5.583
1SCC*JB0067-		1.800	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	5.256
1SCC*JB0067-		1.800	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	4.966
1SCC*JB0067-		1.800	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.32	0.894	0.680	1.000	1.000	1.000	6.279	4.479
Cable: 1SCCARC532 DCD: <BLANK>																
1SCC*JB0067-		2.100	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.01	0.894	0.680	1.000	1.000	1.000	7.306	5.206
1SCC*JB0067-		2.100	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	5.283
1SCC*JB0067-		2.100	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	4.956
1SCC*JB0067-		2.100	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	4.666
1SCC*JB0067-		2.100	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.32	0.894	0.680	1.000	1.000	1.000	6.279	4.179
Cable: 1SCCARC566 DCD: <BLANK>																
1SCC*JB8078-		0.600	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	14.52	0.894	0.680	1.000	1.000	1.000	8.830	8.230
1SCC*JB8078-		0.600	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	15.64	0.894	0.680	1.000	1.000	1.000	9.515	8.915

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	WrapType	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SCCARC566 DCD: <BLANK>																
1SCC*JB8078-		0.600	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	16.31	0.894	0.680	1.300	1.000	1.000	9.922	9.323
1SCC*JB8078-		0.600	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	17.07	0.894	0.680	1.000	1.000	1.000	10.382	9.782
1SCC*JB8078-		0.600	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	16.89	0.894	0.680	1.000	1.000	1.000	10.274	9.674
Cable: 1SCCARC579 DCD: <BLANK>																
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
Cable: 1SCCARC582 DCD: <BLANK>																
1HVY*CH6A		1.250	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	6.973
1HVY*CH6A		1.250	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	14.57	0.894	0.680	1.000	1.000	1.000	8.861	7.611
1HVY*CH6A		1.250	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	15.19	0.894	0.680	1.000	1.000	1.000	9.241	7.991
1HVY*CH6A		1.250	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	15.90	0.894	0.680	1.000	1.000	1.000	9.669	8.419
1HVY*CH6A		1.250	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	15.73	0.894	0.680	1.000	1.000	1.000	9.568	8.318
Cable: 1SCCARC587 DCD: <BLANK>																
1H13*P731		1.250	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	15.73	0.894	0.680	1.000	1.000	1.000	9.568	8.318
1H13*P731		1.250	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	15.90	0.894	0.680	1.000	1.000	1.000	9.669	8.419
1H13*P731		1.250	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	15.19	0.894	0.680	1.000	1.000	1.000	9.241	7.991
1H13*P731		1.250	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	14.57	0.894	0.680	1.000	1.000	1.000	8.861	7.611
1H13*P731		1.250	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	6.973
Cable: 1SCCBBC500 DCD: <BLANK>																
1SCC*JB0068-		2.400	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.886
Cable: 1SCCBBC501 DCD: <BLANK>																
1SCC*JB0068-		2.700	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.586
Cable: 1SCCBBC505 DCD: <BLANK>																
3AFU		3.000	1.000	1CC1548F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SCCBBC507 DCD: <BLANK>																
3AFU		3.000	1.000	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1SCCBBC508 DCD: <BLANK>																
3AFU		3.000	1.000	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1SCCBBC510 DCD: <BLANK>																
1SCC*JB0069-		2.100	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	4.352
Cable: 1SCCBBC511 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.286
Cable: 1SCCBBC512 DCD: <BLANK>																
1SCC*JB0069-		3.600	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	2.852
Cable: 1SCCBBC513 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.48	1.000	0.650	1.000	1.000	1.000	6.160	3.160
Cable: 1SCCBBC518 DCD: <BLANK>																
3AFU		3.000	1.000	1CC154BA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SCCBBC538 DCD: <BLANK>																
1SCC*JB0069-		1.200	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	5.086
Cable: 1SCCBBC544 DCD: <BLANK>																
1SCC*JB0069-		2.100	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	4.186
Cable: 1SCCBBC545 DCD: <BLANK>																
1SCC*JB0069-		3.000	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.452
1SCC*JB0069-		3.000	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	10.80	1.000	0.680	1.000	1.000	1.000	7.344	4.344
Cable: 1SCCBBC551 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.286
Cable: 1SCCBBC552 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.286
Cable: 1SCCBBC553 DCD: <BLANK>																
1SCC*JB0139-		2.700	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.752

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SCC88C563 DCD: <BLANK>																
5AFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	3.066
Cable: 1SCC88C566 DCD: <BLANK>																
5AFU		5.000	1.000	1CC154BF		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	0.743
5AFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	3.066
Cable: 1SCC88C567 DCD: <BLANK>																
5AFU		5.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	13.33	1.000	0.650	1.000	1.000	1.000	8.662	3.662
Cable: 1SCC88C568 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.286
Cable: 1SCC88C578 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.067
Cable: 1SCC88C579 DCD: <BLANK>																
1GTS*PNL28B		1.250	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	6.817
Cable: 1SCC88C580 DCD: <BLANK>																
1N13*P730		1.250	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	6.817
Cable: 1SCC88C584 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.067
Cable: 1SCC88C585 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.067
Cable: 1SCC88C586 DCD: <BLANK>																
1EHS*MCC2H-5		1.250	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.75	1.000	0.650	1.000	1.000	1.000	6.990	5.740
Cable: 1SCC88C587 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	12.41	1.000	0.650	1.000	1.000	1.000	8.066	5.067
Cable: 1SCCC0C001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0030B		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	6.710
Cable: 1SCCC0C500 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0020C		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420

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Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SCCC0C500 DCD: <BLANK>																
3AFU		3.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	11.74	1.000	0.680	1.000	1.000	1.000	7.980	4.980
3AFU		3.000	1.000	1CC0020A		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	13.83	1.000	0.680	1.000	1.000	1.000	9.401	6.401
Cable: 1SCCC0C502 DCD: <BLANK>																
3AFU		3.000	1.000	1CC0020L2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	5.255
3AFU		3.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	6.512
3AFU		3.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	16.48	1.000	0.680	1.000	1.000	1.000	11.206	8.206
Cable: 1SFCARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	5.716
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	17.60	0.894	0.560	1.000	1.000	1.000	8.816	5.815
Cable: 1SFCARC203 DCD: <BLANK>																
1SFC*TS12A		0.075	1.250	1CC600RC1		STD(CO) [3]	0.000	0.000	23.00	0.894	0.790	1.000	0.860	1.000	13.976	13.901
1SFC*TS12A		0.075	1.250	1CC600RC		STD(CO) [3]	0.000	0.000	23.00	0.894	0.790	1.000	0.860	1.000	13.976	13.901
Cable: 1SFCARC505 DCD: <BLANK>																
1SFC*P1A-HTR		0.875	1.250	1TC600R		STD(TR) [3]	20.863	10.109	20.74	0.894	0.560	1.000	1.000	1.000	10.389	9.514
Cable: 1SFCBBC201 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.361
Cable: 1SFCBBC203 DCD: <BLANK>																
1SFC*TS12B		0.075	1.250	1CC600BB1		STD(CO) [3]	0.000	0.000	23.00	0.894	0.790	1.000	0.860	1.000	13.976	13.901
1SFC*TS12B		0.075	1.250	1CC600BB2		STD(CO) [3]	0.000	0.000	23.00	0.894	0.790	1.000	0.860	1.000	13.976	13.901
Cable: 1SFCCRC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	5.716
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	17.60	0.894	0.560	1.000	1.000	1.000	8.816	5.815
Cable: 1SFCERC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC600R		STD(TR) [3]	20.863	10.109	17.40	0.894	0.560	1.000	1.000	1.000	8.717	5.716
3AFU		3.000	1.000	1TC601R		STD(TR) [3]	14.879	15.043	17.60	0.894	0.560	1.000	1.000	1.000	8.816	5.815

<MORE>

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Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SHSBBC500 DCD: <BLANK>																
1C61*PNLP001		3.000	1.000	1CC006BC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1SLSANC002 DCD: <BLANK>																
2AFU		2.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	7.175
2AFU		2.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	7.175
Cable: 1SLSARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
Cable: 1SLSARC005 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	3.638
Cable: 1SLSARC007 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
Cable: 1SLSARC010 DCD: <BLANK>																
1H22*PNLP011		0.675	1.250	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	7.204
1H22*PNLP011		0.675	1.250	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	7.204
1H22*PNLP011		0.675	1.250	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.894
1H22*PNLP011		0.675	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.894
Cable: 1SLSARC012 DCD: <BLANK>																
1SLS*F001A		0.675	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	5.963
1SLS*F001A		0.675	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	5.963
Cable: 1SLSARC014 DCD: <BLANK>																
1C41*VEXF004		0.675	1.250	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.894
1C41*VEXF004		0.675	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	4.894

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SLSARC016 DCD: <BLANK>																
1SLS*F001A		0.675	1.250	1TC500R		STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	5.963
1SLS*F001A		0.675	1.250	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	11.85	1.000	0.560	1.000	1.000	1.000	6.638	5.963
Cable: 1SLSBBC001 DCD: <BLANK>																
3AFU		3.000	1.000	1CC940BJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
Cable: 1SLSG3C003 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
Cable: 1SLSBBC004 DCD: <BLANK>																
3AFU		3.000	1.000	1CC940BJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
Cable: 1SLSBBC005 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1SLSBBC006 DCD: <BLANK>																
3AFU		3.000	1.000	1CC940BJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
Cable: 1SLSBBC007 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC504B53		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC504B83	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
Cable: 1SLSBBC008 DCD: <BLANK>																
1H13*P702-D0		2.225	1.250	1CC940BJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	5.113
Cable: 1SLSBBC010 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SLSBBC010 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
Cable: 1SLSBBC012 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
Cable: 1SLSBBC015 DCD: <BLANK>																
1H13*P710-A4		2.000	1.250	1CC940BJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	5.338
Cable: 1SLSBBC016 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1SLSBNC002 DCD: <BLANK>																
2AFU		2.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	7.175
2AFU		2.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	7.175
Cable: 1SLSNBC500 DCD: <BLANK>																
1AFU		1.000	1.000	1CC940BJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	6.338
Cable: 1SLSNBC501 DCD: <BLANK>																
1AFU		1.000	1.000	1CC940BJ		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	6.338
Cable: 1SLSNBC504 DCD: <BLANK>																
1C41*C001B-H		0.938	1.250	1CC5048B		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	7.623
1C41*C001B-H		0.938	1.250	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.350	8.560	7.623
1C41*C001B-H		0.938	1.250	1CC5048B3		STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.400	9.783	8.846
1C41*C001B-H		0.938	1.250	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	36.00	1.000	0.790	1.000	0.860	0.400	9.783	8.846

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	[illegible]W	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SLSNRC501 DCD: <BLANK>																
1AFU		1.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.53	1.000	0.560	1.000	1.000	1.000	8.137	7.137
1AFU		1.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.53	1.000	0.560	1.000	1.000	1.000	8.137	7.137
1AFU		1.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	4.752
1AFU		1.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	4.752
Cable: 1SLSNRC504 DCD: <BLANK>																
1AFU		1.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	4.752
1AFU		1.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	10.27	1.000	0.560	1.000	1.000	1.000	5.752	4.752
Cable: 1SLSNRC513 DCD: <BLANK>																
1AFU		1.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	14.46	1.000	0.560	1.000	1.000	1.000	8.100	7.100
1AFU		1.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	14.46	1.000	0.560	1.000	1.000	1.000	8.100	7.100
Cable: 1SSRNNC519 DCD: <BLANK>																
5AFU		5.000	1.000	1CC807NA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	6.485
Cable: 1SWPABC005 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC5048B1	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC5048B3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
Cable: 1SWPARC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1CC200RA		STD&UNIQ-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.350	4.507	1.507
3AFU		3.000	1.000	1*JB2119		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPARC002 DCD: <BLANK>																
3AFU		3.000	1.000	1CC200RA2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2118		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA4		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2116		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA5		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2114		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA7		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1SWPARC003 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	3.899
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.630	1.000	1.000	1.000	7.753	4.753
3AFU		3.000	1.000	1TC203R		UNIQUE-2(TR) [1]	3.215	91.175	17.60	0.894	0.680	1.000	1.000	1.000	10.705	7.705
3AFU		3.000	1.000	1CC203RC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1*JB2149		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1CC203RC1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1SWPARC005 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	5.223
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.98.	14.57	0.894	0.680	1.000	1.000	1.000	8.861	5.861
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	15.19	0.894	0.680	1.000	1.000	1.000	9.241	6.241
3AFU		3.000	1.000	1TC203R		UNIQUE-2(TR) [1]	3.215	91.175	21.60	0.894	0.680	1.000	1.000	1.000	13.137	10.137
3AFU		3.000	1.000	1CC203RC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1*JB2149		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1CC203RC2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPARC014 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPARC014 DCD: <BLANK>																
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPARC020 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	3.899
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	4.753
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.34	0.894	0.680	1.000	1.000	1.000	8.112	5.112
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.20	0.894	0.680	1.000	1.000	1.000	8.028	5.028
Cable: 1SWPARC020 DCD: ER 96-0660																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.549	4.255	11.29	0.894	0.680	1.000	1.000	1.000	6.866	3.866
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	4.753
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.34	0.894	0.680	1.000	1.000	1.000	8.112	5.112
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.20	0.894	0.680	1.000	1.000	1.000	8.028	5.028
Cable: 1SWPARC021 DCD: <BLANK>																
3AFU		3.000	1.000	1CC200RA7		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2114		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA5		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2116		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA4		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2118		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2119		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA		STD&UNIQ-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.350	4.507	1.507
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.26	0.894	0.680	1.000	1.000	1.000	7.456	4.456
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.39	0.894	0.680	1.000	1.000	1.000	7.535	4.535
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.84	0.894	0.680	1.000	1.000	1.000	7.201	4.201

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPARC021 DCD: <BLANK>																
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.35	0.894	0.680	1.000	1.000	1.000	6.905	3.905
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.54	0.894	0.680	1.000	1.000	1.000	6.40d	3.408
Cable: 1SWPARC022 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	3.899
Cable: 1SWPARC022 DCD: ER 96-0660																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.549	4.255	11.29	0.894	0.680	1.000	1.000	1.000	6.866	3.866
Cable: 1SWPARC032 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.32	0.894	0.680	1.000	1.000	1.000	6.279	3.279
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	3.766
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	4.056
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	4.383
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.01	0.894	0.680	1.000	1.000	1.000	7.306	4.306
Cable: 1SWPARC033 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	3.899
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	4.753
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.34	0.894	0.680	1.000	1.000	1.000	8.112	5.112
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.20	0.894	0.680	1.000	1.000	1.000	8.028	5.028
3AFU		3.000	1.000	1CC200RA		STD&UNIQ-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.350	4.507	1.507
3AFU		3.000	1.000	1*JB2119		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB211B		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA4		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2116		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA5		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2114		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA6		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPARC034 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.32	0.894	0.680	1.000	1.000	1.000	6.279	3.279
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	3.766
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	4.056
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	4.383
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.01	0.894	0.680	1.000	1.000	1.000	7.306	4.306
Cable: 1SWPARC035 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	3.899
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434
Cable: 1SWPARC038 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1SWPARC039 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.32	0.894	0.680	1.000	1.000	1.000	6.279	3.279
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	3.766
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	4.056
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	4.383
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.01	0.894	0.680	1.000	1.000	1.000	7.306	4.306
Cable: 1SWPARC040 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	3.899
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	4.753
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.34	0.894	0.680	1.000	1.000	1.000	8.112	5.112
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.20	0.894	0.680	1.000	1.000	1.000	8.028	5.028
3AFU		3.000	1.000	1CC200RA		STD&UNIQ-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.350	4.507	1.507
3AFU		3.000	1.000	1*JB2119		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TDF	CGES	MCDF	DCA	M(Amps)
Cable: 1SWPARC040 DCD: <BLANK>																
3AFU		3.000	1.000	1CC200RA2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2118		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA3		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1SWPARC044 DCD: <BLANK>																
3AFU		3.000	1.000	1CC155RA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1SWPARC047 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC503R		STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1SWPARC048 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	10.32	0.894	0.680	1.000	1.000	1.000	6.279	3.279
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	3.766
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	4.056
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	4.383
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.00	0.894	0.680	1.000	1.000	1.000	7.306	4.306
Cable: 1SWPARC049 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	3.899
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	4.753
3AFU		3.000	1.000	1TC203R		UNIQUE-2(TR) [1]	3.215	91.175	17.60	0.894	0.680	1.000	1.000	1.000	10.705	7.705
3AFU		3.000	1.000	1CC203RC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1*JB2149		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1CC203RC2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPARC049 DCD: MR 96-0023																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.549	4.255	11.29	0.894	0.680	1.000	1.000	1.000	6.866	3.866
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	4.434

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	wF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPARC049 DCD: MR 96-0023																
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	4.753
3AFU		3.000	1.000	1TC203R		UNIQUE-2(TR) [1]	3.215	91.175	17.60	0.894	0.680	1.000	1.000	1.000	10.705	7.705
3AFU		3.000	1.000	1CC203RC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1*JB2149		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	4.383
3AFU		3.000	1.000	1CC203RC2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPARC059 DCD: <BLANK>																
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
Cable: 1SWPARC074 DCD: <BLANK>																
1H13*P731-B7		0.625	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	6.274
1H13*P731-B7		0.625	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	6.809
1H13*P731-B7		0.625	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	7.128
1H13*P731-B7		0.625	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.34	0.894	0.680	1.000	1.000	1.000	8.112	7.487
1H13*P731-B7		0.625	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.20	0.894	0.680	1.000	1.000	1.000	8.028	7.403
Cable: 1SWPARC077 DCD: <BLANK>																
1H13*P731-B7		0.625	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	6.500
1H13*P731-B7		0.625	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	7.053
1H13*P731-B7		0.625	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	7.382
1H13*P731-B7		0.625	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	7.753
1H13*P731-B7		0.625	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	7.666
Cable: 1SWPARC082 DCD: <BLANK>																
3AFU		3.000	1.000	1CC838RQ		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	1.000	16.407	13.407
Cable: 1SWPARC086 DCD: MR 96-0023																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.549	4.255	10.28	0.894	0.680	1.000	1.000	1.000	6.250	3.250
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	3.766

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPARC086 DCD: MR 96-0023																
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	4.056
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	4.383
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.01	0.894	0.680	1.000	1.000	1.000	7.306	4.306
Cable: 1SWPARC086 DCD: MR 96-0023-FCN02																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.549	4.255	10.28	0.894	0.680	1.000	1.000	1.000	6.250	3.250
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	11.13	0.894	0.680	1.000	1.000	1.000	6.766	3.766
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	11.60	0.894	0.680	1.000	1.000	1.000	7.056	4.056
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	12.14	0.894	0.680	1.000	1.000	1.000	7.383	4.383
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	12.01	0.894	0.680	1.000	1.000	1.000	7.306	4.306
Cable: 1SWPARC089 DCD: MR 96-0024																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.549	4.255	10.76	0.894	0.680	1.000	1.000	1.000	6.546	3.546
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	10.80	0.894	0.680	1.000	1.000	1.000	6.569	3.569
3AFU		3.000	1.000	1CC200RA		STD&UNIQ-1(CO) [1]	0.000	0.000	27.00	0.894	0.620	1.000	0.860	0.350	4.507	1.507
3AFU		3.000	1.000	1*JB2119		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2118		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA4		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2116		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA5		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB2114		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC200RA7		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1SWPARC090 DCD: MR 96-0024																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.549	4.255	13.46	0.894	0.680	1.000	1.000	1.000	8.194	5.184

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPARC302 DCD: <BLANK>																
1SWP*MOV40A-		1.375	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	15.73	0.894	0.680	1.000	1.000	1.000	9.568	8.193
1SWP*MOV40A-		1.375	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	15.90	0.894	0.680	1.000	1.000	1.000	9.669	8.294
1SWP*MOV40A-		1.375	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	15.19	0.894	0.680	1.000	1.000	1.000	9.241	7.866
1SWP*MOV40A-		1.375	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	14.57	0.894	0.680	1.000	1.000	1.000	8.861	7.486
1SWP*MOV40A-		1.375	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	6.848
Cable: 1SWPARC531 DCD: <BLANK>																
1SWP*P2A-HTR		4.750	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	22.28	0.894	0.680	1.000	1.000	1.000	13.553	8.803
1SWP*P2A-HTR		4.750	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	22.52	0.894	0.680	1.000	1.000	1.000	13.696	8.946
1SWP*P2A-HTR		4.750	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	21.52	0.894	0.680	1.000	1.000	1.000	13.090	8.340
1SWP*P2A-HTR		4.750	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	20.64	0.894	0.680	1.000	1.000	1.000	12.552	7.802
1SWP*P2A-HTR		4.750	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	19.15	0.894	0.680	1.000	1.000	1.000	11.648	6.898
Cable: 1SWPARC553 DCD: <BLANK>																
1SWP*PNL599A		0.262	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	13.52	0.894	0.680	1.000	1.000	1.000	8.223	7.961
1SWP*PNL599A		0.262	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	14.57	0.894	0.680	1.000	1.000	1.000	8.861	8.599
1SWP*PNL599A		0.262	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	15.19	0.894	0.680	1.000	1.000	1.000	9.241	8.978
1SWP*PNL599A		0.262	1.250	1TC203R		UNIQUE-2(TR) [1]	3.215	91.175	21.60	0.894	0.680	1.000	1.000	1.000	13.137	12.875
1SWP*PNL599A		0.262	1.250	1CC203RC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.121
1SWP*PNL599A		0.262	1.250	1*JB2149		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	7.121
1SWP*PNL599A		0.262	1.250	1CC203RC2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	8.204	7.941
Cable: 1SWPARC559 DCD: <BLANK>																
1H13*P750		5.060	1.100	1TC500R		STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	0.250
1H13*P750		5.060	1.100	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.48	1.000	0.560	1.000	1.000	1.000	5.310	0.250
1H13*P750		5.060	1.100	1TC503R		STD(TR) [3]	13.736	16.526	10.80	1.000	0.560	1.000	1.000	1.000	6.048	0.988
1H13*P750		5.060	1.100	1TC503R	MR 96-0020	STD(TR) [3]	13.736	16.526	10.80	1.000	0.560	1.000	1.000	1.000	6.048	0.988
Cable: 1SWPARC567 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	12.04	0.894	0.680	1.000	1.000	1.000	7.324	4.324
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.98	0.894	0.680	1.000	1.000	1.000	7.892	4.892

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	R(Amps)
Cable: 1SWPARC567 DCD: <BLANK>																
3AFU		3.000	1.000	1CC958RC1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
3AFU		3.000	1.000	1CC958RC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPARC602 DCD: <BLANK>																
3AFU		3.000	1.000	1TK203R		STD(TR) [1]	41.341	4.523	14.10	0.894	0.680	1.000	1.000	1.000	8.578	5.577
3AFU		3.000	1.000	1CK200RB1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
3AFU		3.000	1.000	1*JB2106		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
3AFU		3.000	1.000	1CK958RA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.800	13.126	10.126
3AFU		3.000	1.000	1*JB2102		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.800	13.126	10.126
3AFU		3.000	1.000	1CK958RA2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	1.000	16.407	13.407
Cable: 1SWPBBC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.300	1.000	1.000	9.023	6.023
3AFU		3.000	1.000	1CC843BA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB8174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC843BA1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPBBC006 DCD: ER 97-0232																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
3AFU		3.000	1.000	1CC843BA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB8174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC843BA1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPBBC009 DCD: <BLANK>																
3AFU		3.000	1.000	1CC843BA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB8174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC843BA2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1SWPBBC011 DCD: <BLANK>																
3AFU		3.000	1.000	1CC843BA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB8174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC843BE		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.[illegible]	7.383	4.383

<MORE>

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPBBC011 DCD: <BLANK>																
3AFU		3.000	1.000	1CC8438E1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPBBC013 DCD: <BLANK>																
3AFU		3.000	1.000	1CC8438A		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB8174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC8438A3		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.500	8.204	5.204
Cable: 1SWPBBC019 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
Cable: 1SWPBBC038 DCD: <BLANK>																
3AFU		3.000	1.000	1CC504BC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC504BC	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC504BC3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
3AFU		3.000	1.000	1CC504BC3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1SWPBBC041 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1SWPBBC042 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	3.768
Cable: 1SWPBBC044 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	3.768
3AFU		3.000	1.000	1CC154BK		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1SWPBBC047 DCD: <BLANK>																
3AFU		3.000	1.000	1CC504BC		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC504BC	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC504BC1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
3AFU		3.000	1.000	1CC504BC1	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWP88C058 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213
Cable: 1SWP88C059 DCD: <BLANK>																
3AFU		3.000	1.000	1CC5048B		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.350	6.420	3.420
3AFU		3.000	1.000	1CC5048B3		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B3	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.400	7.338	4.338
3AFU		3.000	1.000	1CC5048B1		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC5048B1	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
3AFU		3.000	1.000	1CC5048B2		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
3AFU		3.000	1.000	1CC5048B2	MR 96-0020	STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.700	12.841	9.841
Cable: 1SWP88C062 DCD: <BLANK>																
3AFU		3.000	1.000	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.286
Cable: 1SWP88C066 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1SWP88C069 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1SWP88C070 DCD: <BLANK>																
3AFU		3.000	1.000	1CC843BA		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1*JB8174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
3AFU		3.000	1.000	1CC843BA4		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.700	11.485	8.485
Cable: 1SWP88C072 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
Cable: 1SWP88C080 DCD: <BLANK>																
3AFU		3.000	1.000	1CC021BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	15.344
Cable: 1SWP88C080 DCD: MR 96-0052-FCN01																
3AFU		3.000	1.000	1CC021BA		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	15.344

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWP88C086 DCD: <BLANK>																
3AFU		3.000	1.000	1CC843BH		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.800	13.126	10.126
3AFU		3.000	1.000	1*J88174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1SWP88C087 DCD: <BLANK>																
3AFU		3.000	1.000	1CC843BH		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.800	13.126	10.126
3AFU		3.000	1.000	1*J88174		STD(JB) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	2.743
Cable: 1SWP88C091 DCD: <BLANK>																
3AFU		3.000	1.000	1CC070BD		STD(CO) [3]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.500	9.172	6.172
Cable: 1SWP88C300 DCD: <BLANK>																
1H13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.93	1.000	0.650	1.000	1.000	1.000	6.452	3.527
Cable: 1SWP88C503 DCD: <BLANK>																
1SWP*P3B-HTR		0.625	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.130
Cable: 1SWP88C526 DCD: <BLANK>																
1SWP*P3B-HTR		0.625	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.130
Cable: 1SWP88C569 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1SWP88C600 DCD: <BLANK>																
1H13*P743-E5		0.188	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	10.41	1.000	0.650	1.000	1.000	1.000	6.768	6.580
Cable: 1SWP8RC005 DCD: <BLANK>																
3AFU		3.000	1.000	1TC502R		STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC502R	MR 96-0020	STD(TR) [3]	29.950	6.608	14.07	1.000	0.560	1.000	1.000	1.000	7.879	4.879
3AFU		3.000	1.000	1TC500R		STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
3AFU		3.000	1.000	1TC500R	MR 96-0020	STD(TR) [3]	54.029	3.302	9.95	1.000	0.560	1.000	1.000	1.000	5.569	2.569
Cable: 1SWPC0C003 DCD: <BLANK>																
2AFU		2.000	1.000	1CK0010F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
2AFU		2.000	1.000	1CK0010F1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383
2AFU		2.000	1.000	1CK0010F2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	5.383

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPC0C004 DCD: <BLANK>																
2AFU		2.000	1.000	1CC0030E2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.4[illegible]	8.255	6.255
2AFU		2.000	1.000	1TC0030		STD(TR) [1]	30.854	6.381	14.28	1.000	0.680	1.000	1.000	1.000	9.710	7.710
2AFU		2.000	1.000	1CC0030F		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	1.000	18.344	16.344
2AFU		2.000	1.000	1TC0020		STD(TR) [1]	40.773	4.597	12.12	1.000	0.680	1.000	1.000	1.000	8.242	6.242
Cable: 1SWPC0C300 DCD: <BLANK>																
1H13*P712-CN		1.375	1.250	1CC0020L2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	6.880
1H13*P712-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	10.80	1.000	0.680	1.000	1.000	1.000	7.344	5.969
Cable: 1SWPC0C301 DCD: <BLANK>																
1SWP*MOV40C-		1.375	1.250	1CK0010F		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	6.008
1SWP*MOV40C-		1.375	1.250	1CK0010F1		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	6.008
1SWP*MOV40C-		1.375	1.250	1CK0010F2		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.450	7.383	6.008
Cable: 1SWPC0C307 DCD: <BLANK>																
1H13*P712-CN		1.375	1.250	1CC0G20L2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	6.880
1H13*P712-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.137
Cable: 1SWPC0C500 DCD: <BLANK>																
1SWP*P2C-HTR		4.750	1.250	1CK0010F		STD(CO) [1]	0.000	0.000	50.00	0.894	0.790	1.000	0.860	0.450	13.673	8.923
1SWP*P2C-HTR		4.750	1.250	1CK0010F1		STD(CO) [1]	0.000	0.000	50.00	0.894	0.790	1.000	0.860	0.450	13.673	8.923
1SWP*P2C-HTR		4.750	1.250	1CK0010F2		STD(CO) [1]	0.000	0.000	50.00	0.894	0.790	1.000	0.860	0.450	13.673	8.923
Cable: 1SWPCRC010 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPDBC004 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	12.08	1.000	0.680	1.000	1.000	1.000	8.213	5.213

Load Id	LDCD	LoadAmp	LF	Raceway ID	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPDBC006 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1SWPDBC007 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.70	1.000	0.680	1.000	1.000	1.000	9.319	6.319
Cable: 1SWPDBC009 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
Cable: 1SWPDBC012 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	13.27	1.000	0.680	1.000	1.000	1.000	9.023	6.023
Cable: 1SWPDBC300 DCD: <BLANK>																
1#13*P730-CN		2.925	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	9.67	1.000	0.650	1.000	1.000	1.000	6.286	3.361
Cable: 1SWPDBC500 DCD: <BLANK>																
1SWP*P3D-HTR		0.625	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.130
Cable: 1SWPDBC501 DCD: <BLANK>																
1SWP*P3D-HTR		0.625	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	10.130
Cable: 1SWPDBC507 DCD: <BLANK>																
3AFU		3.000	1.000	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	15.82	1.000	0.680	1.000	1.000	1.000	10.755	7.755
Cable: 1SWPERC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPGRC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPJRC001 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPLRC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPNBC500 DCD: <BLANK>																
1SWP*PVY32B	MR 96-0020	0.025	1.250	1TC048B		UNIQUE-3(TR) [3]	49.977	3.619	17.58	1.000	0.650	1.000	1.000	1.000	11.426	11.401
1SWP*PVY32B	MR 96-0020	0.025	1.250	1TC047B		UNIQUE-6(TR) [3]	33.085	5.878	22.40	1.000	0.680	1.000	1.000	1.000	15.234	15.210
Cable: 1SWPNOC600 DCD: <BLANK>																
1H13*P712-CN		1.375	1.250	1CC0020L2		STD(CO) [1]	0.000	0.000	27.00	1.000	0.790	1.000	0.860	0.450	8.255	6.880
1H13*P712-CN		1.375	1.250	1TC0020		STD(TR) [1]	40.773	4.597	13.99	1.000	0.680	1.000	1.000	1.000	9.512	8.137
Cable: 1SWPNOC601 DCD: <BLANK>																
1H13*P751-CN		1.375	1.250	1CC0010B		STD(CO) [1]	0.000	0.000	23.00	1.000	0.790	1.000	0.860	0.800	12.501	11.126
1H13*P751-CN		1.375	1.250	1TC0010		STD(TR) [1]	3.570	80.611	18.40	1.000	0.680	1.000	1.000	1.000	12.512	11.137
1H13*P751-CN		1.375	1.250	1CC0010A		STD(CO) [1]	0.000	0.000	23.00	1.000	0.790	1.000	0.860	0.860	12.501	11.126
1H13*P751-CN		1.375	1.250	1TC0030		STD(TR) [1]	30.854	6.381	12.18	1.000	0.680	1.000	1.000	1.000	8.285	6.910
Cable: 1SWPNRC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SWPNRC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPNRC502 DCD: <BLANK>																
1EHS*MCC16A-		1.250	1.250	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.34	0.894	0.680	1.000	1.000	1.000	6.899	5.649
1EHS*MCC16A-		1.250	1.250	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.22	0.894	0.680	1.000	1.000	1.000	7.434	6.184
1EHS*MCC16A-		1.250	1.250	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	12.75	0.894	0.680	1.000	1.000	1.000	7.753	6.503
1EHS*MCC16A-		1.250	1.250	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.34	0.894	0.680	1.000	1.000	1.000	8.112	6.862
1EHS*MCC16A-		1.250	1.250	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.20	0.894	0.680	1.000	1.000	1.000	8.028	6.778
Cable: 1SWPQRC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPSRC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SWPURC002 DCD: <BLANK>																
3AFU		3.000	1.000	1TC205R		UNIQUE-2(TR) [1]	43.199	4.295	11.72	0.894	0.680	1.000	1.000	1.000	7.125	4.125
3AFU		3.000	1.000	1TC204R		UNIQUE-2(TR) [1]	38.045	4.987	12.62	0.894	0.680	1.000	1.000	1.000	7.678	4.678
3AFU		3.000	1.000	1TC202R		UNIQUE-2(TR) [1]	35.425	5.424	13.16	0.894	0.680	1.000	1.000	1.000	8.007	5.007
3AFU		3.000	1.000	1TC201R		UNIQUE-2(TR) [1]	32.799	5.938	13.77	0.894	0.680	1.000	1.000	1.000	8.378	5.378
3AFU		3.000	1.000	1TC200R		UNIQUE-1(TR) [1]	33.388	5.815	13.63	0.894	0.680	1.000	1.000	1.000	8.291	5.291
Cable: 1SYDBBC450 DCD: <BLANK>																
1EGS*PNL.d		1.250	1.250	1CC154BC		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492

Load Id	LDCD	LoadAmp	LF	Raceway Id	RDCD	Wraptype	Fill	Q	AmpRw	CADF	WSDF	TCDF	CGDF	MCDF	DCA	M(Amps)
Cable: 1SYDBBC451 DCD: <BLANK>																
1EGS*PNL1B		1.250	1.250	1CC1548C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1SYDBBC452 DCD: <BLANK>																
1EGS*PNL1B		1.250	1.250	1CC1548C		STD(CO) [1]	0.000	0.000	27.00	0.894	0.790	1.000	0.860	0.350	5.742	4.492
Cable: 1WCSNNC004 DCD: <BLANK>																
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
Cable: 1WCSNNC042 DCD: <BLANK>																
3AFU		3.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	17.60	1.000	0.560	1.000	1.000	1.000	9.856	6.856
3AFU		3.000	1.000	1TC529N		STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
3AFU		3.000	1.000	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	16.38	1.000	0.560	1.000	1.000	1.000	9.175	6.175
Cable: 1WCSNNC506 DCD: <BLANK>																
10AFU		10.000	1.000	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	2.096
10AFU		10.000	1.000	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	2.096
Cable: 1WCSNNC535 DCD: <BLANK>																
1G33-F031-HT		0.525	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.411
1G33-F031-HT		0.525	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.411
1G33-F031-HT		0.525	1.250	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.571
1G33-F031-HT		0.525	1.250	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.571
Cable: 1WCSNNC566 DCD: <BLANK>																
1H22*PNLP002		0.625	1.250	1TC529N		STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.311
1H22*PNLP002		0.625	1.250	1TC529N	MR 96-0020	STD(TR) [3]	23.117	8.960	19.53	1.000	0.560	1.000	1.000	1.000	10.936	10.311
1H22*PNLP002		0.625	1.250	1TC532N		STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.471
1H22*PNLP002		0.625	1.250	1TC532N	MR 96-0020	STD(TR) [3]	9.286	26.189	21.60	1.000	0.560	1.000	1.000	1.000	12.096	11.471

<END>

RECORD OF TELEPHONE CONVERSATION

DATE: 12-19-96

SUBJECT: Power Requirements for Moisture Control Unit 1RMS*REY13B (Mfg. by General Atomic Co., Model No. 0382-1201)

PREPARED BY: Luis A Madero, KCN #1025, DE/Fire Protection, x3625

TELEPHONE CONVERSATION WITH:

Mr. Art Evans (619) 457-8984
Nuclear Engineer, Customer Service Manager Fax (619) 453-4675
Sorrento Electronics, 10240 Flanders Court, San Diego, CA 92121

A. Related Documents/Drawings:

1. Loop Calibration Report 1.ILRMS.019
2. VTM-G292-005 [VTD-G292-0129 (Vendor Publication #E-115-1213)]

B. Discussion

Per conversation with Mr. Art Evans of Sorrento Electronics, 10240 Flanders Court, San Diego, CA 92121, (619) 457-8984, Fax (619) 453-4675, the subject General Atomic Co. unit has a Sorrento assembly no. of 03821201-001.

Mr. Evans quoted note two on drawing 03821200: the nominal power requirement is 25A 120V. Mr. Evans stated that the power requiremet of the heat trace is listed as 10Watts per foot with a total of 10 feet on the unit skid.

I inquired about the actual loading requirements of the unit vs. the published rating upon inspection of document A.2 above which shows as the unit as a skid mounted equipment comprised of the following loads: a compressor motor, a heat trace circuit, and five control relays. Upon request, Mr. Evans gave me pwer requirements for the heat trace.

I commented to Mr. Evans that, per review of document A.2 above, the worst case motor amps available with the unit is less than 5 amperes and that the combined loading of the relays would not be more than two or three amperes. Mr. Evans concurred with my assessment of the combined relay loadings.

Note: It is wothwhile to mention that a 15A breaker is allowed as protection for the unit compressor whose worst case load is 5 Amps and the existence of a 25A breaker serving as the overall skid incoming protective device (from which the 25A power requirement may have as its basis).

Based on the current requirement of the compressor (5 Amps) , the heat trace circuit (100W/120V or 0.83 Amps), and the combined assessed loading of the relays (3 Amps), the subject moisture control unit operating load is approximately 10 Amps.

E-218, Rev. 1
Attachment 5
Page 2052

SORRENTO ELECTRONICS
10240 FLANDERS COURT
SAN DIEGO, CA 92121
(800) 966-2258
FAX (619) 453-4875

FAX TRANSMISSION

DATE: December 19, 1996

TO: LUIS MADERO
FAX 504-381-5626
PHONE 504-381-3625

FROM: ART EVANS
FAX: (619) 457-8933
PHONE: (619) 457-8984

THE NUMBER OF PAGE(S) INCLUDED IN THIS TRANSMITTAL IS 1 INCLUDING THIS COVER PAGE

CLIENTELE CALL

Caller: LUIS MADERO RIVER BEND ENTERGY Phone: 504-381-3625
Summary: POWER REQUIREMENTS FOR SKID

12/19/96 1:16:32 PM ARTE
Needs power requirements for the skid and heat trace.

Assy No. 03821201-001

The overall power requirement for the skid is 25 A 120V. These power requirements are listed as note two on drawing 03821200.

The power requirements for the heat trace is listed as 10W/Ft. with 10 ft on the skid.

If you have any questions, please contact me at the above numbers.

Sincerely,

Art Evans
Nuclear Engineer
Manager, Customer Service

Walkdown Record

Date: 1/22/97
Subject: Fire Wrapped Conduits Configuration

A walkdown was conducted by Joe Yang and Luis Madero on 1/21/97 to inspect the conduit grouping configuration of the conduits listed below. These conduits were identified by PDMS as being wrapped by Thermo-lag (T-L) material in the listed Fire Area/Zone (the existing T-L material may have been applied either throughout the conduit's routing or a portion of its routing within the fire area).

Conduit	Fire Area/Zone
1CH003OA	C-6/Z-1
1CC040BC	C-24/Z-1
1CK920BB	C-17/Z-1
1CK600NA1	PT-1/Z-1
1CK600NM1	PT-1/Z-1
1CK921NA	C-24/Z-1

For the thermo-lagged portion of the conduits, the conduit routing configurations in the fire area/zones were inspected for conduit spacing between the subject conduit and adjacent conduits running in parallel. Attached are sketches that show the spacing between the conduits.

Note 1: A portion of conduits 1CK600NA1 and 1CK600NM1 was not accessible for inspection due to the congestion of pipings and the large Thermo-Lag structure for the cable tray stacks in the area.

Note 2: There is no Thermo-Lag wrapping installed on conduit 1CK921NA.

Prepared by: Joe Yang KCN 1557 Date: 1/22/97
1/22/97

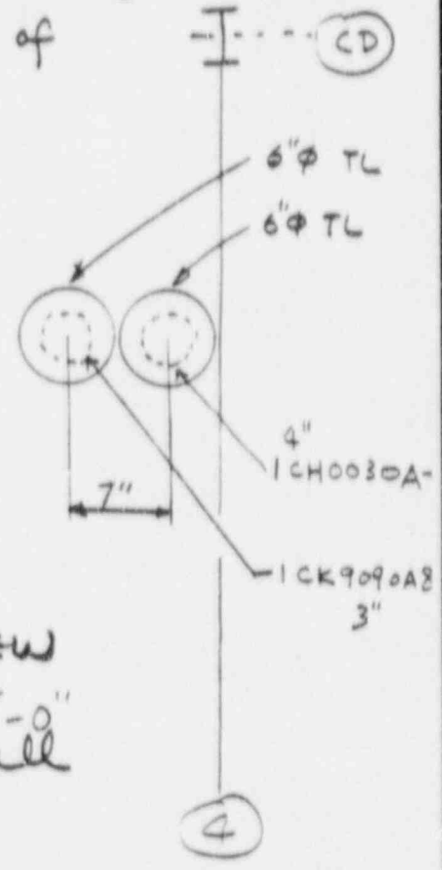
Checked by: Luis A Madero Date: 1/22/97
KCN 1025.

E-218 REV. 1
ATTACHMENT 6
page 2 of

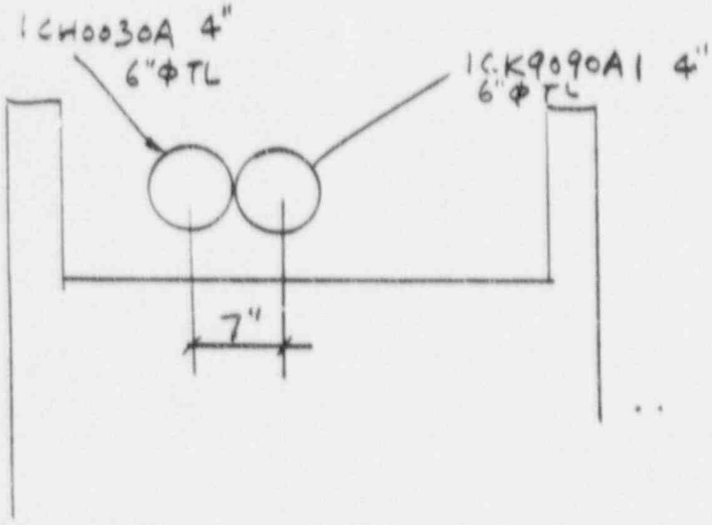
Zone C6/Z1
EE-4203

← N —

CONDUIT 1CH0030A



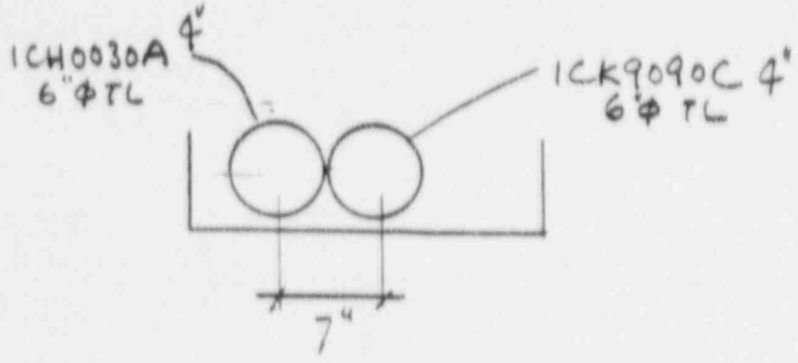
PLAN VIEW
Elev. 70'-0"
South Wall



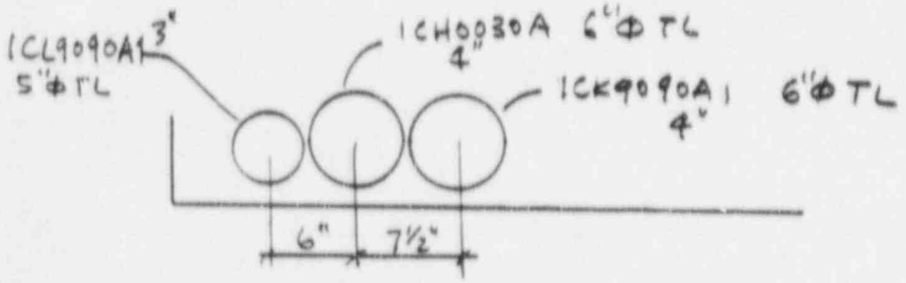
conduit support structure (4'-0" from South Wall)
LKG NORTH

Zone C6/Z1 EL 70'-0"

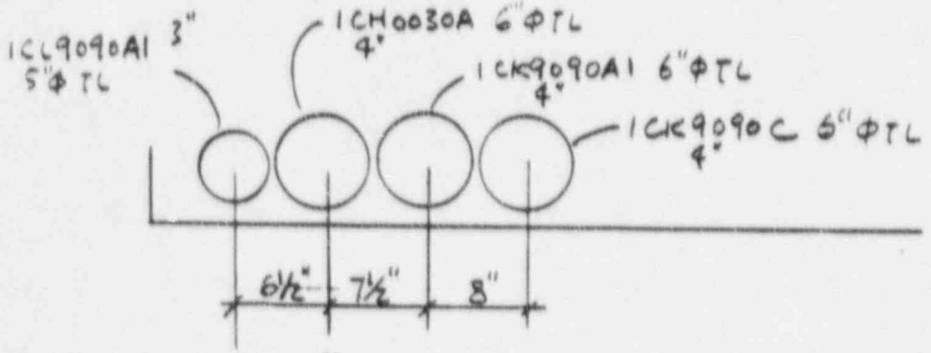
E-218 REV. 1
ATTACHMENT 6
PAGE 3



CONDUIT SUPPORT STRUCTURE
LKG NW



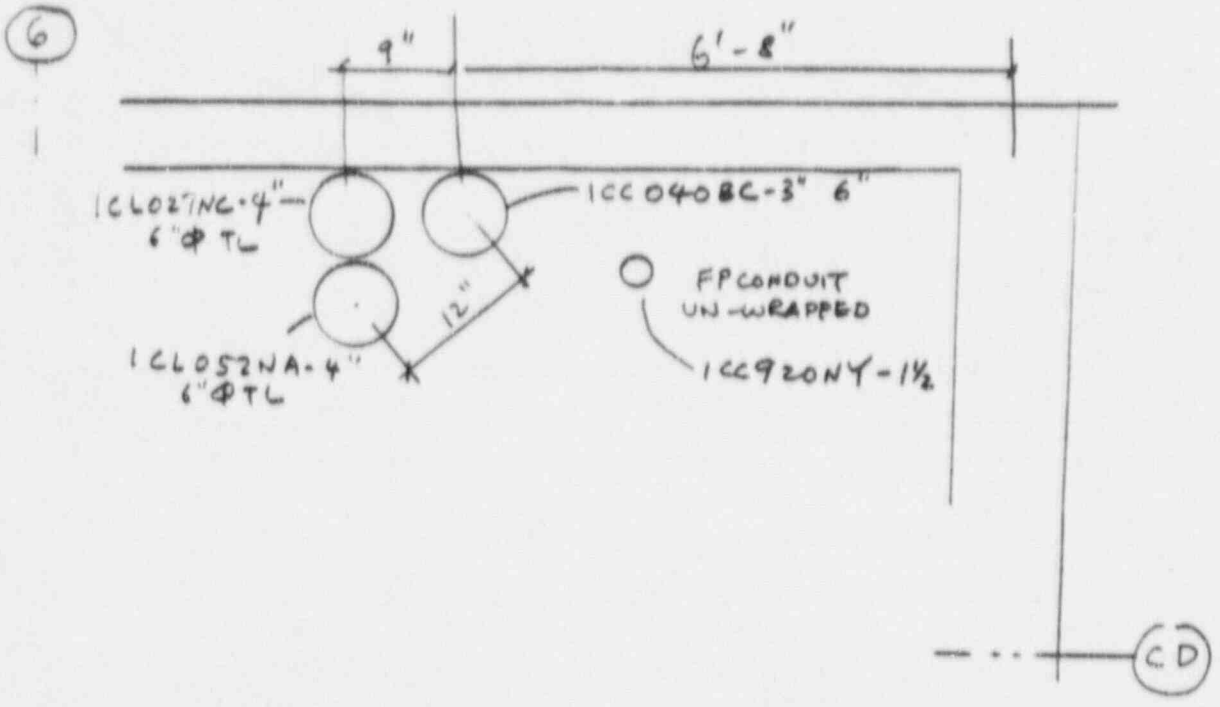
CONDUIT SUPPORT STRUCTURE
LKG NW



CONDUIT SUPPORT STRUCTURE
LKG NW

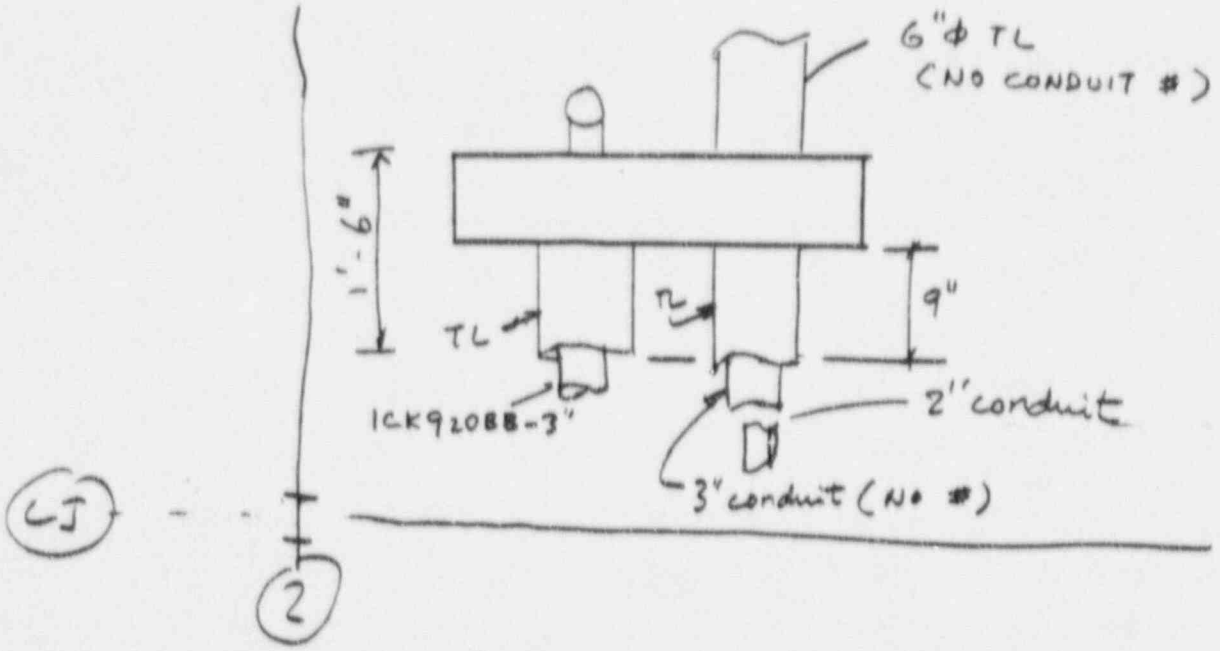
DWG EE-420L ZONE C24/Z-1 EL. 115'-0"

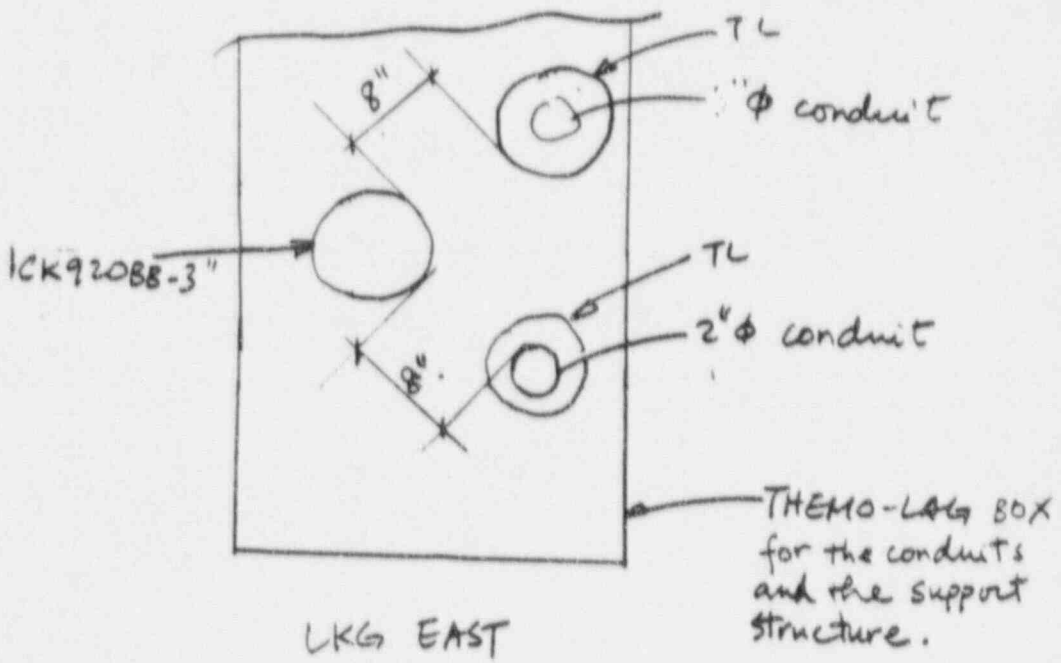
conduit 1CC040BC



DWG EE-420K Elev. 116
Zone C-17/2-1
ICK920BB

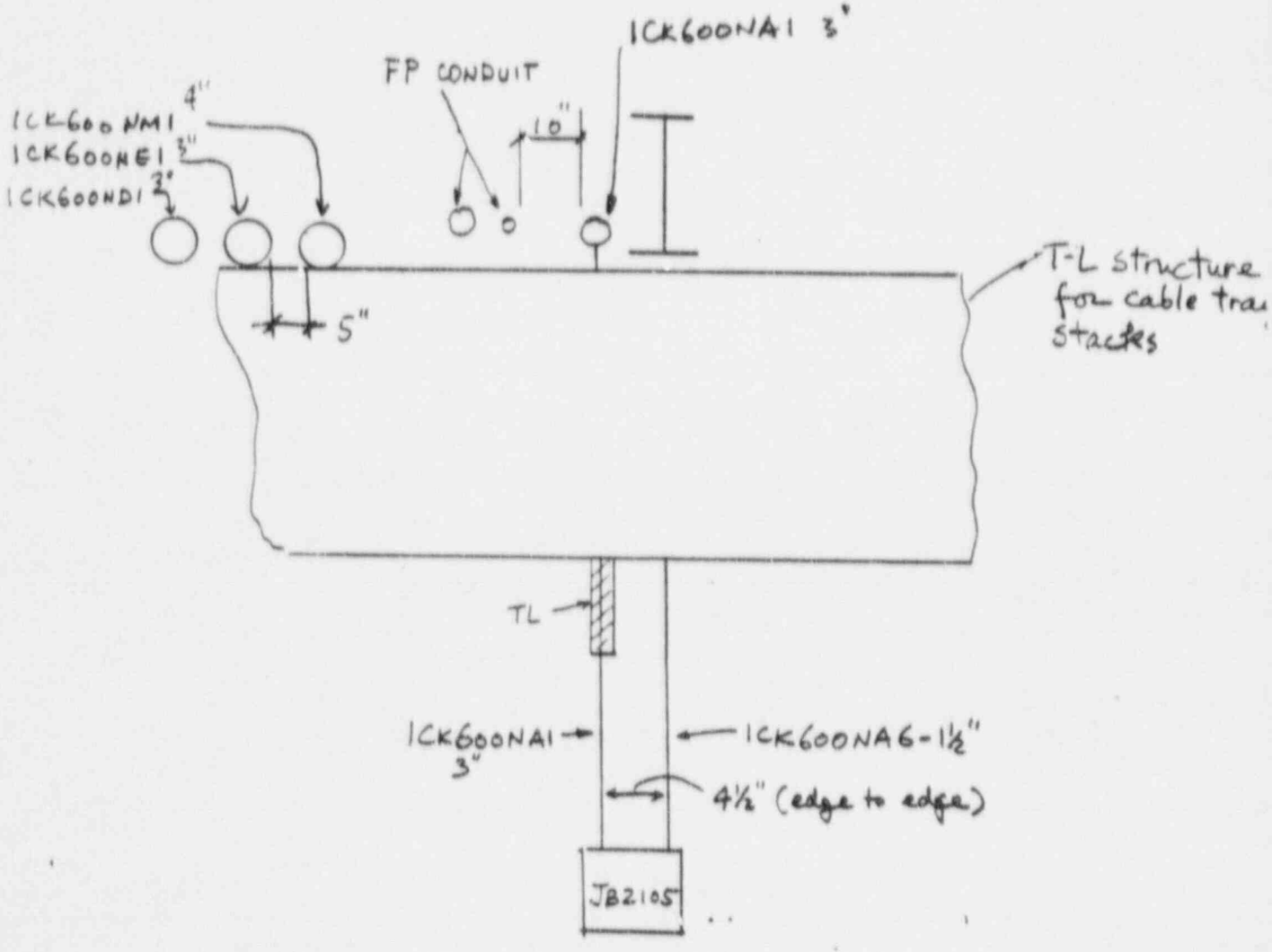
← N —





LKG EAST

PIPE TUNNEL EL. 66'-3"
DWG EE-590A-6
conduit 1CK600NA1 1NK600NM1



LKG NORTH

Walkdown Record

Subject: Tray 1TK512N in Containment Elev. 114 ft.

Per visual inspection of Tray 1TK512N on 2-6-97, no thermo-lag (T-L) fire barrier material is installed in or around the tray. There was no evidence that T-L was previously installed in the tray.

It should be noted that a solid block (~5 ft. length) of an off-white material was observed occupying the total inner area of tray (width, height). It appears to be a material called GYPSUM. The tray cables are completely covered by or "embedded" in this material.

Prepared By: Luis A Madero Date: February 7- 1997
KCN: 1025

Verified By: Curtis King Date: 2.7.97
KC.: CURTIS KING

This attachment is being used to further justify the ampacity for cables 1CMSNRC507, 1CMSNRC508, 1CMSNRC509 and 1CMSNRC510 due to their larger operating currents of 12.78 A, 10.01A, 10.01A and 13.18A in tray section 1TC500R. This justification will use Stolpe's findings in his published paper (reference 5.3.1).

The approach will be to determine a new percent fill based on spare and noncontinuous loads and then to recalculate the above cables ampacity using Stolpe's equation number 9 (also see section 4.2.3 of this calculation) given as follows:

$$I_{nom} = \frac{D}{2}\sqrt{\frac{Q\pi}{nR}}$$

where: n = number of conductors in cable
Q = heat generated per unit area of the tray (watts/ft/in^2)
D = cable diameter (inches)
R = a.c. resistance of conductor at 90°C (Ohms/ft)

From section 4.2.3 the following equation for Q will be used:

C Tray $Q = 360 * (\%Fill_{PDMS} * 0.5)^{-1.176}$ watts/ft/in^2

where: $\%Fill_{PDMS} * 0.5$ = new calculated percent fill

The information in Table 8.1 is derived exclusively from PDMS for all cables in tray 1TC500R. All loads, cable types, cable sizes, cable area and continuous or intermittent loads are in the data base. From Table 8.1, the total cross sectional area of the cables that are continuously energized is 22.62 in^2. This fills a 3in x 18in tray to:

22.62 in^2 / (3 x 18) in^2 = 41.89 %

The new Q value is:

Q = 360 * (41.89)$^{-1.176}$ = 4.45

The new ampacity for the #12 AWG cable is:

D = 0.49 in (reference PDMS)
n = 2 (reference PDMS)
R = 2.2154 ohms/1000 ft (reference PDMS)

I = 0.49/2 *((4.45*3.14159)/(2*0.0022154)) = 13.7 Amps

It should be noted that cables 1CMSNRC507, 1CMSNRC508, 1CMSNRC509 and 1CMSNRC510 are used in heat trace circuits. These heat trace circuits are not continuously energized, but cycle on and off due to thermostats on the piping. An example of how long the circuit is energized is given in attachment 9. This intermittent loading of the circuit does not allow the cable to heat up to its maximum operating temperature due to the thermal constants of the cable and cable mass in the tray. Also, as suggested in Stolpe's paper (reference 5.3.1), it takes about 6 hours for cables to rise to their maximum temperature from room ambient temperature. In the case of the above cables, it would take less time for the cables to heat up since the tray would already be heated by the other cables. But with 5 to 10 minuets on and 15 to 20 minuets off, the cables would not heat up much and would be allowed to cool some before the circuit was reenergized.

Table 8.1

CABLE NUMBER	NO. OF CONDUCTORS	CABLE SIZE	CONTIN. OR INTR	CABLE AREA	LOAD CURRENT	CABLE RESISTANCE
1ADSARC601	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSARC603	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSARC605	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSBRC603	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSBRC605	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSBRC607	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSCRC601	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSCRC603	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSCRC601	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSCRC605	2/C	12 AWG	C	0.1836	0.5	2.2154
1ADSDRC603	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSDRC605	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSERC601	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSERC603	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSFRC601	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSFRC603	2/C	12 AWG	C	0.1886	0.5	2.2154
1ADSGRC601	2/C	12 AWG	C	0.1886	0.5	2.2154
1CCPARC011	5/C	12 AWG	C	0.3318	3	2.2154
1CCPCRC011	5/C	12 AWG	C	0.3318	3	2.2154
1CCPNRC508	2/C	12 AWG	C	0.1886	3	2.2154
1CMSARC522	5/C	12 AWG	C	0.3318	3	2.2154
1CMSARC523	12/C	12 AWG	C	0.7238	3	2.2154
1CMSARC537	7/C	12 AWG	C	0.3848	3	2.2154
1CMSARC538	12/C	12 AWG	C	0.7238	3	2.2154
1CMSARC543	5/C	14 AWG	C	0.2463	3	3.4179
1CMSARC549	5/C	14 AWG	C	0.2463	3	3.4179
1CMSARC555	7/C	12 AWG	C	0.3848	3	2.2154
1CMSARC556	12/C	12 AWG	C	0.7238	3	2.2154
1CMSARC558	5/C	14 AWG	C	0.2463	3	3.4179
1CMSNRC507	2/C	12 AWG	C	0.1886	12.78	2.2154
1CMSNRC508	2/C	12 AWG	C	0.1886	10.01	2.2154
1CMSNRC509	2/C	12 AWG	C	0.1886	10.01	2.2154
1CMSNRC510	2/C	12 AWG	C	0.1886	13.18	2.2154
1CMSNRC512	2/C	12 AWG	SPARE	0	0	2.2154
1CMSNRC515	2/C	12 AWG	SPARE	0	0	2.2154
1CMSNRC518	2/C	12 AWG	SPARE	0	0	2.2154
1CMSYRC506	2/C	12 AWG	C	0.1886	5	2.2154
1CPMARC003	2/C	12 AWG	C	0.1886	3	2.2154
1CPMARC008	5/C	12 AWG	C	0.3318	3	2.2154
1CPMARC024	5/C	12 AWG	C	0.3318	3	2.2154
1CPMARC507	2/C	10 AWG	C	0.2376	1	1.3911
1CPMARC508	2/C	12 AWG	SPARE	0	0	2.2154
1CPMCRC003	5/C	12 AWG	C	0.3318	3	2.2154
1CPMCRC006	5/C	12 AWG	C	0.3318	3	2.2154
1CSLNRC501	7/C	12 AWG	C	0.3848	0.41	2.2154
1CSLNRC503	3/C	12 AWG	C	0.2124	1	2.2154
1HCSARC401	2/C	10 AWG	I	0	0	1.3911
1HCSARC532	2/C	12 AWG	I	0	0	2.2154
1HCSARC536	2/C	12 AWG	I	0	0	2.2154

Table 8.1

CABLE NUMBER	NO. OF CONDUCTORS	CABLE SIZE	CONTIN. OR INTR	CABLE AREA	LOAD CURRENT	CABLE RESISTANCE
1HCSARC544	2/C	12 AWG	I	0	0	2.2154
1HCSARC550	2/C	12 AWG	I	0	0	2.2154
1HCSARC557	2/C	12 AWG	I	0	0	2.2154
1HCSARC573	2/C	12 AWG	I	0	0	2.2154
1HCSARC574	2/C	12 AWG	I	0	0	2.2154
1HCSARC575	2/C	12 AWG	I	0	0	2.2154
1HCSARC581	2/C	12 AWG	I	0	0	2.2154
1HCSARC582	2/C	12 AWG	I	0	0	2.2154
1HCSARC583	2/C	12 AWG	I	0	0	2.2154
1HCSARC584	2/C	12 AWG	I	0	0	2.2154
1HCSARC585	2/C	12 AWG	I	0	0	2.2154
1HCSARC586	2/C	12 AWG	I	0	0	2.2154
1HCSARC587	2/C	12 AWG	I	0	0	2.2154
1HCSARC588	2/C	12 AWG	I	0	0	2.2154
1HCSARC595	2/C	12 AWG	I	0	0	2.2154
1HCSARC596	2/C	12 AWG	I	0	0	2.2154
1HCSARC597	2/C	12 AWG	I	0	0	2.2154
1HVNARC003	5/C	12 AWG	C	0.3318	3	2.2154
1HVNARC503	2/C	12 AWG	SPARE	0	0	2.2154
1HVRARC504	7/C	12 AWG	C	0.3848	3	2.2154
1HVRARC568	2/C	10 AWG	C	0.2376	2	1.3911
1ICSNRC523	7/C	12 AWG	SPARE	0	0	2.2154
1RCSARC003	5/C	12 AWG	C	0.3318	3	2.2154
1RCSARC007	5/C	12 AWG	C	0.3318	3	2.2154
1RCSARC010	5/C	12 AWG	C	0.3318	3	2.2154
1RCSARC013	5/C	12 AWG	C	0.3318	3	2.2154
1RCSARC500	2/C	12 AWG	C	0.1886	3	2.2154
1RHSARC043	2/C	12 AWG	C	0.1886	3	2.2154
1RHSARC045	2/C	12 AWG	C	0.1886	3	2.2154
1RHSARC055	5/C	12 AWG	C	0.3318	3	2.2154
1RHSARC071	5/C	12 AWG	C	0.3318	3	2.2154
1RHSARC502	7/C	12 AWG	C	0.3848	0.41	2.2154
1RHSARC534	3/C	12 AWG	C	0.2124	5	2.2154
1RHSNRC521	2/C	12 AWG	SPARE	0	0	2.2154
1RMSARC506	3/C	12 AWG	C	0.2124	3.5	2.2154
1RMSNRC514	2/C	8 AWG	C	0.3959	12	0.875
1RMSNRC515	2/C	12 AWG	SPARE	0	0	2.2154
1RMSNRC534	2/C	8 AWG	C	0.3959	12	0.875
1RMSNRC547	2/C	12 AWG	C	0.1886	2.5	2.2154
1RMSNRC548	2/C	12 AWG	SPARE	0	0	2.2154
1RPSARC601	2/C	12 AWG	C	0.1886	6	2.2154
1PRSNRC502	7/C	12 AWG	C	0.3848	1.02	2.2154
1RPSNRC507	5/C	12 AWG	C	0.3318	1.02	2.2154
1RPSNRC513	5/C	12 AWG	C	0.3318	1.02	2.2154
1SLSARC003	5/C	12 AWG	C	0.3318	3	2.2154
1SLSARC005	2/C	12 AWG	C	0.1886	3	2.2154
1SLSARC007	5/C	12 AWG	C	0.3318	3	2.2154
1SLSARC010	5/C	12 AWG	C	0.3318	0.54	2.2154
1SLSARC012	2/C	12 AWG	C	0.1886	0.54	2.2154

Table 8.1

CABLE NUMBER	NO. OF CONDUCTORS	CABLE SIZE	CONTIN. OR INTR	CABLE AREA	LOAD CURRENT	CABLE RESISTANCE
1SLSARC014	5/C	12 AWG	C	0.3318	0.54	2.2154
1SLSARC016	2/C	12 AWG	C	0.1886	0.54	2.2154
1SLSNRC501	3/C	12 AWG	C	0.2124	1	2.2154
1SLSNRC504	3/C	12 AWG	C	0.2124	1	2.2154
1SLSNRC513	4/C	10 AWG	C	0.3526	1	1.3911
1SLSNRC515	2/C	12 AWG	SPARE	0	0	2.2154
1SWPARC038	5/C	12 AWG	C	0.3318	3	2.2154
1SWPARC047	5/C	12 AWG	C	0.3318	3	2.2154
1SWPARC059	5/C	12 AWG	C	0.3318	3	2.2154
1SWPARC521	2/C	12 AWG	SPARE	0	0	2.2154
1SWPARC559	12/C	12 AWG	C	0.7238	4.6	2.2154
1SWPBRC005	5/C	12 AWG	C	0.3318	3	2.2154
			TOTAL	22.6229		TOTAL

Walkdown Record

Subject: Ammeter Measurement of Load Currents for Cables 1CMSNRC501 thru 505.

The load current of the cables listed below were determined via ammeter measurement:

Load Device	Cable	Measured Current
1CMS*ES110A (C1 1)	1CMSNRC501	12.5 Amps
1CMS*ES111A (C1 2)	1CMSNRC502	10.1 Amps
1CMS*ES112A (C1 3)	1CMSNRC503	10.1 Amps
1CMS*ES113A (C1 4)	1CMSNRC504	13.5 Amps
1CMS*ES114A (C1-5)	1CMSNRC505	12.9 Amps
1CMS*ES115A (C1 6)	Load on cable was not measured	

The time elapsed between initial and final current measurements was approximately 30 minutes. The Load Devices cycled on/off, as determined by a green indicating light on the load device that lit up when it was operating and a load reading on the ammeter. In the case of load device 1CMS*ES111A, it was on for approximately 5 minutes and off for approximately 20 minutes.

The Load Devices appeared to energize at a temperature of approximately 272 °F as determined by a display on device 1CMS*TI125A.

Ammeter measurement performed by: Charles Cowan KCN: 1030 Date: 5-16-97

Witnessed/Verified By: Russ Watts KCN: 0823 Date: 5-16-97

Luis A Madero KCN: 0125 Date: 5-16-97

Walkdown Record Prepared By: Luis A Madero

E-218, Rev. 1, ~~Attachment 8~~ 9/26/97 +/C3

ENTERGY	ATTACHMENT I Page 1 of 2 Typical Design Verification Record	ES-P-002-00

Page _____ of _____

Document Number Calculation E-218 Revision 1

METHOD

Verification methods to be used:

- ✓ Design Review
- _____ Qualification Testing
- _____ Alternate Calculations

DOCUMENT(S) REVIEWED (Attach Additional Sheet(s), if needed)

Document Number	Revision	Document Title
G13.18.14.0-178	0	Ampacity Derating Factors for Thermo-Lag 330-1 Enclosures
ER 96-0537	0	Equipment Load ID and Equipment Load Data Update
ER 96-0537 ERCN1	0	
ER 96-0521	0	PDMS Essential Raceway Data Update
E-218	0	
Criterion 240.201A	1 and 2	
PDMS Database	N/A	
Various References in Section 5 of E-218 Rev 1		

SUMMARY OF REVIEW: (Attach Additional Sheet(s), if needed) Verifier performed the following:

- In depth review of technical approach & general presentation/delivery.
- In depth review of resolution of plant specific problems. Provided options to resolve & eliminate the problems.

This third and last submittal to the verifier by the preparer for acceptance is conformant to general industry practice in technical and presentation of results terms. The resolutions and recommendations are deemed appropriate.

Design Verification Completed By Luis A Madera Date: 5-19-97

Comment Resolutions Accepted By Luis A Madera Date: 5-19-97

Engineering Supervisor [signature] 0454 Date: 9/26/97

ES-P-002, Form No. 1, Rev 0

E-218, Rev. 1, ~~Attach. B~~ 2/23

ENTERGY	ATTACHMENT I Page 2 of 2 Typical Design Verification Record	ES-P-002-00

CMNT NO	COMMENT	RESOLUTION	ACPT Y/N	INIT/ DATE
	See Attached pages for comments (51 comments total)			

ENTERGY

Technical Review Comments

Document Number	E-218	Rev. 1	Subject/Title:	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

Document Type: Electrical Calculation

Special Notes or Instructions: This is a Rev. 1 draft submittal from Duke Engineering & Services, Inc. for Entergy acceptance review.

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
1	--	The calculation lacks the required Design Verification Record form. Use the DV form in ES-P-002-00 Attach. I.	DV form included.	[initials]
2	Pg. 1	Cover sheet: In block 10, check "N" for QAPA.	Done	[initials]
3	Pg. ~~6~~ 7	Section 4.0, second paragraph, second to last sentence: replace "(Reference 5.2.2)" with "(taken from References 5.1.1 and 5.2.2)"	Done	[initials]
4	Pg. ~~6~~ 7	Section 4.0, second paragraph, add after last sentence: "The applicable ACF is dependent upon the type of thermo-lag/raceway configuration in PDMS. The basis for the thermo-lag/raceway configuration is Reference 5.1.4."	Done	[initials]
5	Pg. ~~6~~ 7	Section 4.0, third paragraph, first sentence: State clearly whether the "various" cable types in Tables 4-1 & 4-2 are only those cables routed through T-L'd raceways. Do the tables contain all C cable mark nos. (except those 700 & 900 series cables) in T-L?	Done	[initials]
6	Pg. ~~6~~ 7	The following sections contain the words "... and verified" and "...has been verified" in relation to PDMS data input: Section 4.0 (third paragraph), Section 4.1, Section 4.2.2, 4.3.2, 4.3.3, 4.4.0, 4.4.4: How was the verification done? Where is it documented? Does it need to follow RBNP-041 requirements? The RBS PDMS coordinator may provide direction. A representative sample of C& K Tray calculated ampacities (via hand method, ICEA standard tables, etc.) should be compared with those computed by PDMS to determine PDMS's accuracy.	Validation to be performed on GPC Verification Data Set.	[initials]

Reviewed By:	Luis A Madero [signature] 1025	Date	12-31-96	Resolved By/Date: LEE 1/24/97	L.E.Easton 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S (Atlanta, GA)
Department: Design Engineering/Fire Protection		Ext.	504 381-3625	Department/Ext.:	770 441-5283

E-218 Rev 1 Page

Attach. 8 3/83 [initials] 9/24/97

ENTERGY

Technical Review Comments

Document Number	E-218	Rev. 1	Subject/Title:	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

Document Type: Electrical Calculation

Special Notes or Instructions: This is a Rev. 1 draft submittal from Duke Engineering & Services, Inc. for Entergy acceptance review.

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
7	Pg. ~~7~~ 8 (En 9/20/97)	Section 4.0, last sentence on first bulleted paragraph regarding "...provided as a check...": The sentence is confusing and ambiguous. Reword to say that if the ampacities resulting from the method in Section 4.2.3 (Equations 4.2.3a,b,c) exceed 80% of the open air ampacities (in Table 4-2), then the applicable ampacities sh... be established using Equation 4.2.3d. Same comment applies to ... last sentence of bulleted paragraph "Tray -" on Pg. 17.	Resolved per 1/7/97 FAX	LAM
8	Pg. ~~7~~ 8 (En 9/20/97)	Section 4.0, third bullet, first sub-bullet "# 8AWG in Tray": replace references "A.5.3.3" and "A.5.1.14" with "5.3.3" and "5.1.8", respectively.	Done	LAM
9	Pg. ~~7~~ 9 (En 9/20/97)	Section 4.0, third bullet, second and third sub-bullets: replace Section "4.3.2" with "4.2.2" and copy the table alluded to (Table 4.3.2), along with the bulleted paragraph "Tray -" on Pg. 17, to Section 4.2, possibly as a new section right before Section 4.2.3. Make the necessary text changes to address the correlation of MCDF, Table 4-2 ampacities, and PDMS for trays.	Resolved per 1/7/97 FAX.	LAM
10	Pg. ~~10~~ 12 (ED)	Section 4.1, last paragraph: add "is done" after the word "CADF".	"is performed"	LAM

Reviewed By:	Luis A Madero LAM 1025	Date	12-31-96	Resolved By/ Date:	[signature] 1/24/97
Organization:	Entergy Operations, Inc., River Bend Station			Organization:	DE&S
Department:	Design Engineering/Fire Protection	Ext.	504 381-3625	Department/Ext.:	

E-218 Rev 1 Page ~~Attach 8~~ 4/23

ENTERGY

Technical Review Comments

Document Number	E-218	Rev. 1	Subject/Title:	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

Document Type: Electrical Calculation

Special Notes or Instructions: This is a Rev. 1 draft submittal from Duke Engineering & Services, Inc. for Entergy acceptance review.

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
11	Pg. ~~14~~ 12	Section 4.2.2, first paragraph: Capitalize "multiple" and replace "Section 2.D" with "Section II.D".	Done	[initials]
12	Pg. ~~14~~ 16	Section 4.2.3, last paragraph: replace "Section II.2" with "Section 2.2".	Done	[initials]
13	Pg. ~~15~~ 16	Section 4.2.5: Please make clear that the ACF (WSDF) factor is the one input into and used by PDMS.	Done - last paragraph.	[initials]
14	Pg. ~~15~~ 17	Table 4.2.5: The "UNIQUE-3 (TR) [1]" and "UNIQUE-6 (TR) [1]" ACFs/WSDFs are not in PDMS. They should be input into PDMS.	Both are in PDMS	[initials]
15	Pg. ~~15~~ 17	Table 4.2.5: the word "above" appears four times in the table and in Note 4. Its use is not clear. Please clarify its usage.	Done	[initials]
16	Pg. ~~17~~ 19	Section 4.3.2 second bullet (paragraph "Tray -..."), next to last sentence: add "for C and K Service Code trays" after "Note that the nominal ampacity in tray".	Resolved by FAX 1/7/97.	[initials]
17	Pg. ~~19~~ 21	Table 4.3.4: please state why were the third, fourth, and fifth conduit/barrier configurations not analyzed by Ref. 5.1.1.	Discussed in Table notes 1, 2 and 3.	[initials]

Reviewed By:	Luis A Madero [signature] EB 9/26/97 1025	Date	12-31-96	Resolved By/ Date:	[signature] 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S
Department: Design Engineering/Fire Protection	Ext.	504 381-3625		Department/Ext.:	

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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
18	Pg. ~~19~~ 21	Table 4.3.4, Notes 1 and 5: state the basis for the conservatism.	Notes revised	LAM
19	Pg. ~~19~~ 21	Table 4.3.4, Note 2: provide the basis/Reference for this statement.	Note 2 revised.	LAM
20	Pg. ~~21~~ 24	Section 4.5, second paragraph: Please clari y the statement "higher power to volume ratio".		
21	Pg. ~~23~~ 26	Reference 5.1.8: Per the recommendation of the PDMS coordinator, delete mention of the PDMS version.	Resolved per 1/16/97 FAX.	LAM
22	Pg. ~~25~~ 28	Section 6.0: Presentation of calculation results need to be modified by reworking the "Methodology" Sections 4.4 and 4.5, and the "Conclusion" Section 6.0 as recommended below. <u>Sections 4.4 and 4.5:</u> Renumber Section 4.5 to 4.4. Renumber Section 4.4 to 4.5 and retitle it "Derated Current Ampacity and Maximum Load Current Equations". In new Section 4.5.4 (old Section 4.4.4) and throughout calculation, replace "Load" with "LOAD" as the maximum load current. PDMS needs update.	Resolved per 1/16/97 FAX. PDMS change to be made later.	LAM LAM

Reviewed By:	Luis A Madero LAM 1025	Date	12-31-96	Resolved By/ Date:	L E Easton 1/24/97
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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
22 (Cont'd)		New Section 4.6: Renumber Section 4.4.5 to 4.6 and bold existing title "Ampacity Acceptance Criteria." Add "Section 4.6.1 Iteration #1", "Section 4.6.2 Iteration # 2", "Section 4.6.3 Iteration #3". In new Section 4.6.1, discuss that adequacy of cable ampacities are established via the following ampacity criteria (as it is presently shown in old Section 4.4.5): DCA $\geq$ FLA using the LFs per old Section 4.4.4. Delete last paragraph of old Section 4.4.5. In new Section 4.6.2 "Iteration #2", discuss that cables screened out by Iteration #1 were handled by a generic and comprehensive criteria: the removal of thermo-lag from the affected raceway, i.e., the ampacities shall be established/calculated without thermo-lag ADF factor. This approach is applicable only for raceways whose existing T-L barrier is no longer required per review of References 5.1.12 and 5.1.14. Add as new Reference 5.1.14 MR 91-0075 (the MR that upgrades T-L'd raceways).	Done	

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Reviewed By:	Luis A Madero 1025	Date	12-31-96	Resolved By/ Date:	1/24/97
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Document Number	E-218	Rev. 1	Subject/Title:	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
22 (Cont'd)		In new Section 4.6.3 "Iteration #3", discuss that adequacy of cable ampacities are established by a conservative but less stringent ampacity criteria: cable ampacities whose DCA $\geq$ 1.10 of FLA are acceptable for loads capable of operation at 90% voltage and whose equipment/circuits do not operate overloaded, e.g., control circuitry, motors whose HP or KVA do not exceed rated, etc.	Done 1/16/97 FAX.	LAM
	Pg. 2828 on 9/26/97	<u>In Section 6.0:</u> Designate existing text (from Section 6.0 up to existing Section 6.1) as new Section 6.1.2. Add new Section 6.1 titled as "Ampacity Results" before Section 6.1.2. Add new Section 6.1.1 with the following text: "All cables met the ampacity acceptance criteria of Section 4.6. The majority of cable ampacities were deemed acceptable via Iteration #1. Those cables whose ampacities were deemed acceptable via Iterations #2 and #3 are listed in Table 6.1 below with applicable Notes."	↓	

Reviewed By:	Luis A Madero LAM 1025	Date	12-31-96	Resolved By/ Date:	LE Easter 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S
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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
22 (Cont'd)	Pg. 25	Include Table 6.1 and add the following text before it: "In some cases, cable ampacities were found to be less than the load (or circuit) rated current requirements, i.e., DCA < FLA. These cases occurred in Iteration #1 DCAs due to the presence of thermo-lag on certain raceways of the cables' routing. These thermo-lagged cable segments may have been subject to temperatures higher than their normal insulation operating temperatures. These cases are noted in Table 6.1 with notation similar to: DCA = 0.97xFLA. Additional evaluation is required to determine the effect of increased operating temperatures on the thermo-lagged portion of the cables."	Done	LAM
		Modify the existing text now under new Section 6.1.2 (existing Section 6.0) as follows: delete the first sentence in the first paragraph and the "Recommended solutions..." paragraph along with the remainder of the existing text (up to existing Section 6.1).	Done	LAM
23	Pg. 26 thru 32	Existing Sections 6.1, 6,2, 6.3, and 6.4: These are no longer needed due to Table 6.1. Please delete.	Done	LAM
24	Pg. 32	FYI: In existing Sections 6.4.6 and 6.4.7, the applicable WSDF is 0.56, not 0.79 as shown.	Done	LAM

Reviewed By:	Luis A Madero LAM 1025	Date	12-31-96	Resolved By/ Date:	L E Easter 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S
Department:	Design Engineering/Fire Protection	Ext.	504 381-3625	Department/Ext.:	

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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
25	Pg. 26, 27, 28	The following loads are coil heaters or unit heaters, not motors, and their load factors should be changed fro 1.25 to 1.1: Exisung Section Cable No. Load ID. 6.2.1 IHVCBBK200 & 201 IHVC*CH1B 6.2.3 IHVYNNK037 IHVY-CH13 6.2.4 IHVYNNK042 IHVY-CH14 6.2.5 IHVYNNK043 IHVY-CH18 6.2.6 IHVYNNK044 IHVY-UH15* 6.2.7 IHVYNNK045 IHVY-UH16* 6.2.8 IHVYNNK046 IHVY-UH17* 6.2.9 IHVYNNK047 IHVY-UH18* *The listed of DCA of 0.88 should have been 0.85	All revised per ER 96-0537.	
26	Pg. 26 thru 32	For those cables in existing Sections 6.1, 6.2, 6.3, & 6.4 that had an Iteration #1 DCA (i.e., a DCA with the T-L barrier on the raceway) less than the FLA of the load/equipment, please determine all reasonable options to reduce the number of cables in this category via analysis before they are deemed inadequate in Rev. 1 of E-218. This determination should be done now as a normal activity in an analytical effort to establish the adequacy of cable ampacities. For example:	Done	

Reviewed By:	Luis A Madero 1025	Date	12-31-96	Resolved By/ Date:	R Equaster 1/24/97
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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
26a		Sections 6.1.2, 6.2.10, 6.2.11, 6.2.13, 6.2.15, 6.4.5, 6,4,7: For the transformer feeder, distribution panel feeders, feeders going to skid mounted units, etc., please model more realistic (actual) load currents than the worst case approach of using, e.g., rated transformer full load currents, rated distribution panel incoming protective device current ratings, etc. For skid mounted equipment, determine the actual load requirements of the components in the circuit fed by the cable (use ckt. block diagrams, schematics, etc.) rather than simply using the rated power/load requirement listed on a drawing/manual. With proper engineering judgment, a more realistic load requirement can be considered in the analysis.	Done	
26b		For the coil heater and unit heater cables in existing Sections 6.2.1, 6.2.3, 6.2.6 thru 6.2.9, investigate if the are used only during the winter and how often: can they be considered as intermittent loads during winter and over the life of the plant?	Not required. All justified acceptable.	
27	Pg. 30, 31	Section 6.4.1 thru 6.4.3, Control Cables: Please use actual/realistic load currents rather than rated protective device ampere ratings. Recommendations are listed below.	Done	

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Reviewed By:	Luis A Madero 1025	Date	12-31-96	Resolved By/ Date:	K E Eagle 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S
Department:	Design Engineering/Fire Protection	Ext.	504 381-3625	Department/Ext.:	

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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
27a	Pg. 30	Section 6.4.1: SLS cables are part of the Standby Liquid Control system that is used only during a control rod drive system failure. Load requirements should be much lower than the 10A fuse. Also, CSH cables: this system is of infrequent use, see if circuitry can be considered as an intermittent load.	Done	LAM
27b	Pg. 30	Section 6.4.2: the RPS system buses is normally fed by voltage regulated transformers in which case, a 1.1 LF may be used. The loads may be control circuits whose load requirements (relays, SOVs, etc.) are well defined and do not experience occasional overload conditions (e.g., such as increased current due to increased process fluid loadings in the case of pumps). Determine a realistic load current for the HVC cable.	Done	LAM
27c	Pg. 30, 31	Section 6.4.3: The RMS cables may feed circuits that, when the contribution of each circuit component is accounted for, the total current requirement is much lower than the loading requirement of the equipment as a whole as quoted on vendor dwgs. and manuals, which sometimes use vendor provided protective device ratings as load requirements. Determine a realistic load current for the JPB, LAC, and SHS cables.	Done	LAM

Reviewed By:	Luis A Madero LAM 1025	Date	12-31-96	Resolved By/ Date:	R Easter 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S
Department: Design Engineering/Fire Protection		Ext.	504 381-3625	Department/Ext.:	

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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
27d	Pg. 30, 31	In Sections 6.4.1 thru 6.4.3, rated fuse sizes are used as the circuit/equipment full load amperes and compared to calculated cable derated current ampacities (DCAs) which are all below the fuse ratings. Since these DCAs are lower than the "full load" requirements (i.e., fuse ratings), the cables ampacity appear inadequate. To justify the cable ampacity, the argument is made in these Sections that the NEC allows the use of the next higher fuse size and, therefore, the existence of fuse ampere ratings greater than the calculated cable DCAs are acceptable conditions for the determination of adequate cable ampacities. This approach is not valid because the NEC allowance is applicable when determining the adequacy of cable/load overcurrent protection, rather than for attempts to justify a cable's ampacity using the fuse rating as a load value. These are different issues. For these cables, research is required to determine more realistic loadings (much lower than the fuse ratings) and establish the adequacy of the calculated DCAs (derated cable ampacities).	Done - this justification not used.	[initials]

Reviewed By:	Luis A Madero [initials] 1025	Date	12-31-96	Resolved By/ Date:	L E Easter 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S
Department: Design Engineering/Fire Protection		Ext. 504 331-3625		Department/Ext.:	

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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
28	Pg. 33	Renumber and retitle existing Section 6.5 to "Section 6.2 Summary of Recommendations". Put existing text and table under new Section 6.2.1. Under new Section 6.2.2, add "The following cables from Table 6.1 should be evaluated to determine any temperature effects on cable insulation since the cables may have been subjected to load currents greater than the thermo-lagged ampacities (Iteration #1 DCA) as established in Table 6.1. It should be noted that only a particular thermo-lagged portion of a cable's routing may be involved rather than the complete cable route." Include a table showing the cable no. and the raceway that adversely affects the cable's thermo-lagged ampacity.	Done Done	LAM LAM
29	Attach. 1 thru 4:	Please insure that all hand corrections presently shown in the PDMS printouts are incorporated in PDMS and that the K and C cable lists on Attachments 2 (page 14) and 3 (page 5) are included in the PDMS printout.	New ER required to make PDMS changes.	No, Revision to ER96-0537 Rev. 0 shall be done LAM
30	Pg. 2	Update the Table of Contents as required.	Done	LAM
31	Pg. 4	State the references of the Rev. 0 & 1 Wrap Status data in the table.	Done	LAM

E-218 Rev 1 Pgs

Reviewed By:	Luis A Madero LAM 1025	Date	12-31-96	Resolved By/ Date:	K E Austin 1/24/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	DE&S
Department:	Design Engineering/Fire Protection	Ext.	504 381-3625	Department/Ext.:	

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Table 6.1

Cable No., Load ID.	Raceway No., Fire Area/Zone	Iteration #1 DCA, Amps	Iteration #2 DCA w/o T-L, Amps	LOAD, Amps (Section 4.5.4)	FLA, Amps (Section 4.5.4)	Iteration #3: Ratio of Iteration #2 DCA to FLA	Cable Ampacity : Acceptable (Y/N)	Temperature Effects Evaluation Req'd If Iteration #1 DCA < FLA	Notes
1CSHCOH300, 1E22*S001G1C	1CH003OA, C-6/Z-1	393.4	497.9	441.1	401	N/A	Y	DCA = 0.98xFLA	1
1ENSBBH300, 1EJS*X1B	1CH012BA, C-6/Z-1	195.0	246.8	228.8	208	N/A	Y	DCA= 0.94xFLA	1
1HVCBBK200, 1HVC*CH1B	1CK920BB, C-17/Z-1	35.7	45.2	48.9	39.12	1.15	Y	DCA = 0.91xFLA	1
1HVCBBK201, 1HVC*CH1B	1CK920BB, C-17/Z-1	35.7	45.2	48.9	39.12	1.15	Y	DCA = 0.91xFLA	1
1HVRNOK001, 1HVR*UC5	1CK939OA, AB-7//Z-1	77.2	N/A	65.0	52	N/A	Y	N/A	2,3
1HVRNOK001, 1HVR*UC5	1CK939OA, AB-7/Z-1	77.2	N/A	71.3	62	N/A	Y	N/A	2,3
1HVYNNK037, 1HVY-CH13	1CK600NA1, PT-1/Z-1	29.5	50.0	39.71	36.1	N/A	Y	DCA = 0.82xFLA	1
1HVYNNK042, 1HVY-CH14	1CK600NM1, PT-1/Z-1	19.8	N/A	18.74	17.04	N/A	Y	N/A	
1HVYNNK043, 1HVY-CH18									
1HVYNNK044, 1HVY-UH15	1CK600NM1, PT-1/Z-1	10.2	17.3	13.2	12	N/A	Y	DCA = 0.85xFLA	1
1HVCBBL201, 1HVC*ACU2B	1TL012B, C-16/Z-1	98.1	158.22	106.3	85.04	N/A	Y	N/A	4
1HVCBBL201, 1HVC*ACU2B	1TL012B, C-16/Z-1	105.0	N/A	106.3	85.04	N/A	Y	N/A	4,5
1HVRCNL201, 1HVR-UC1C	1TL507N, RC-4/Z-7	210.3	N/A	211.3	169.04	N/A	Y	N/A	5
1ENBBBC604, ?	1CC040BC, C-24/Z-1	61.8	78.2	80.0	64.0	1.22	Y	DCA = 0.97xFLA	1
1HCSARC532, ?	1TC500R, RC-4/Z-7	6.5	11.6	7.5	6	N/A	Y	N/A	1

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Attach. 8 13/28 9/26/97

Table 6.1 Notes:

1. Removal of the Thermo-Lag (T-L) barrier from the raceway is required.
2. There are five other cables in 1CK939OA. Four have intermittent loads (3-phase MOVs 1E22*F004, F012, F015, F023) and are, therefore, considered non current carrying conductors. The other cable is a control cable for 1HVR*UC5. Only the control cable is considered as a current carrying conductor along with 1HVR*NOK001.
3. Per ER 96-0537, CR 95-00887 replaces existing 52A motor with a 50Hp, 62A FLA, 1.15 LF motor.
4. Per review of MR 91-0075, the existing T-L barrier will be replaced with an upgraded T-L barrier. The T-L barriers' ADF factors are 0.62 and 0.67, respectively, per Reference 5.1.1. These ADFs result in Iteration #1 DCAs of 98.1A and 106.0A, respectively.
5. Less than 0.5% deviation of Iteration #1 DCA from LOAD is acceptable due to built-in conservatism in the 1.25 LF.
6.

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Document Type: Electrical Calculation			**Special Notes or Instructions:** This is a Rev. 1 draft **second submittal** from Duke Engineering & Services, Inc. for Entergy review. Initial EOI comments (a total of 30) were transmitted to Duke Engineering & Services via EOI letter no. RBG-43586 dated December 31, 1996.	

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
1	Cover Sh.	In block 14, add: "Issuance of Criterion 240.201A Rev. 2, Close out of MR 91-0075"	Done	LAM
2	Pg. 3	Table of Contents: List as Attachment 7, and include as such, the calculation Design Verification Record form with the initial EOI comments (30 comments transmitted via letter RBG-43536) as well these additional 20 comments.	Done, Attachment 8	LAM
3	Pg. 4	Section 1.0: Reference 5.1.2 (ER 96-0537) and PDMS need to be revised to incorporate the latest walkdown data for tray 1TK512N and conduit 1CK921NA, i.e., they are not wrapped with thermo-lag. The ER should use as attachments the walkdown data from page 1 of Attach. 6 to this calc. (for 1CK921NA) and Attach. 2 to the letter transmitting these comments (for 1TK512N). Table 1 and the calc. as a whole needs to incorporate this info. (Related comments: 14a, 16b, 18,19)	Done — Attachment 7	LAM
4	Pg. 4	Table 1: Based on a review of E-218 Rev. 0, conduits 1CC939RE and 1CK811RH were deleted. Therefore, these conduits never had T-L (per Rev. 0 of E-218). Update Table 1.	Done	LAM
5	Pg. 5	Section 2.0, item 2: Between the first and second paragraphs add a blank line.	Done	LAM

E-218 REV 1 Page Attachment 8

Reviewed By:	Luis A Madero LAM 1025	Date	3-3-97	Resolved By/ Date:	LEEgoten 5/2/97
Organization: Entergy Operations, Inc., River Bend Station				Organization: Duke Engineering and Services (Atlanta, GA)	
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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
6	Pg. 6	Reword calc. sections that contain the words "... and verified," "...has been verified," "...has been input," etc., as follows. Section 4.0, third paragraph, last sentence: replace "has been input to PDMS and verified." with "is contained in PDMS."Sections 4.1 and 4.3.3, second to last sentence: delete "and has been verified." Sections 4.2.2 and 4.3.2, second to last sentence: after MCDF add "is performed" and delete "has been verified." Sections 4.2.5, 4.3.4, and 4.4, second to last sentence: replace "have been input into PDMS and verified." with "are contained in PDMS." Section 4.5, first sentence: after "calculations" add "are", delete "have been verified." Section 4.5.4, second to last sentence: replace "in PDMS have been verified." with "are contained in PDMS."	Done	
7	Pg. 8	Section 4.0, 3rd bullet, 2nd sub-bullet, second sentence: Before "Values" add "Listed" and replace "are" with "have been."	Done	

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Reviewed By:	Luis A Madero 1025	Date	3-3-97	Resolved By/ Date:	LEEaster 5/2/97
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Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
8	Pg. 16 & 20	ADF factors in Tables 4.2.5 and 4.3.4: Reference 5.1.1 is not finalized and repeat/additional EOI comments on said Ref. have recently been submitted to DE&S via EOI letter no. RBG-43723 dated February 7, 1997. Next submittal to EOI of E-218 Rev. 1 by DE&S shall use the ADF factors from an EOI approved Ref. 5.1.1.	Done	LAM
9	Pg. 20	Note 1, 3rd sentence: add missing "t" in "intermittently."	Done	LAM
10	Pg. 25	Reference 5.1.12: Reword description to "Criterion 240.201A, Rev. 2, Entergy Operations, Inc. River Bend Station, 10CFR50, Appendix R Separation Analysis"	Done	LAM
11	Pg. 25	Reference 5.1.14: Add MR 91-0075 title "Upgrade Appendix R Thermo-Lag Enclosures"	Done	LAM
12	Pg. 28 & 33	Tables 6.1 and 6.2: For the upgrade raceways, please show two entries for each cable. The first entry uses the existing 3 hour enlosure ADF and the second entry uses the 1 hour upgrade enclosure ADF. Specifically, for the multi-tray enclosures in Fire Area C-16/Z-1, please note in the Table that the upgrade enclosures will be 1 hour single tray type, not the 1 hour two-tray configurations.	No change – WSDF values are the same – see Notes to Tables 6.1 and 6.2.	LAM

E-218 REV1 Page Attachment B 19/23

Reviewed By:	Luis A Madero LAM 1025	Date	3-3-97	Resolved By/ Date:	LEEgastw 5/2/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	
Department: Design Engineering/Fire Protection		Ext.	504 381-3625	Department/Ext.:	

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ENTERGY

Technical Review Comments

Document Number	Rev.	Subject/ Title:
E-218	1	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

Document Type: Electrical Calculation

Special Notes or Instructions: This is a Rev. 1 draft **second submittal** from Duke Engineering & Services, Inc. for Entergy review. Initial EOI comments (a total of 30) were transmitted to Duke Engineering & Services via EOI letter no. RBG-43586 dated December 31, 1996.

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
13	Pg. 31 & 38	Table 6.1 and 6.2 Notes: There is a good amount of data (actual load amps, recently obtained load data, Load Factors, data references such as dwgs. and vendor manuals, etc.) that needs to be incorporated into the E-218 Rev. 1 calculation results via a revision to Reference 5.1.2 (ER 96-0537 Rev. 0) with the subsequent PDMS update per the ER. Next submittal to EOI of E-218 Rev. 1 by DE&S shall be based on approved documents: 1) Rev. 1 of ER 96-0537 with PDMS completely updated 2) Calculation G13.18.14.0-178 Rev. 0 (see comment 8)	Done	LAM
14	Pg. 31 & 38	a. Table 6.1 Notes 9, 10, & 11: delete. ER 96-0537 & PDMS require revision/update for these cables per comment 3. b. Table 6.1 Notes that require ER 96-0537 revision and/or PDMS update: 1, 2, 3, 4, 5, 6, 12, 13, 14, 18 (the PDMS problem mentioned in Note 18 should be resolved). c. Table 6.2 Notes that require ER 96-0537 revision and/or PDMS update: 1, 2, 3, 4, 6, 7, 8, 12, 13, 15 thru 32. d. Table 6.2 Note 31: add "Ambient Temperature for this Fire Area is 32.2°C. Therefore, the corresponding CADF of 1.075 was used resulting in a 5.7A Iteration #1 DCA." Update DCA ratio in Note 31 and fix "manually" the PDMS CADF for this component. e. In the ER, please include revision levels of the drawings used.	Done d. — Not applicable anymore. e. — Resolved by ER.	LAM

Reviewed By:	Luis A Madero LAM 1025	Date	3-3-97	Resolved By/ Date:	LEEaston 5/2/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	
Department: Design Engineering/Fire Protection		Ext.	504 381-3625	Department/Ext.:	

E-218 Rev 1 Page — Attachment — 20/23

ENTERGY

Technical Review Comments

Document Number	E-218	Rev. 1	Subject/ Title:	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

Document Type: Electrical Calculation

Special Notes or Instructions: This is a Rev. 1 draft **second submittal** from Duke Engineering & Services, Inc. for Entergy review. Initial EOI comments (a total of 30) were transmitted to Duke Engineering & Services via EOI letter no. RBG-43586 dated December 31, 1996.

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
15	28 thru 41	Upon issuance of ER 96-0537 Rev. 1, the Table 6.1 and 6.2 Notes justifying the load data , LF, etc., should go away as well as the cables themselves (from Tables 6.1 and 6.2) if DCA #1 is greater than Load.	Done	LAM
16	28	Table 6.1: a. Cable 1HVYNNK037: update to DCA= 0.71FLA b. Cables 1LARNNK057, 1LARNNK059, 1SCAANK500: based on comment 3 and 14a above, these cables are outside the scope of E-218. Exclude them from the calc. and delete Note 19. c. Note 15: For existing T-L, DCA=0.86 & 0.88. For upgrade T-L, DCA= 0.89 & 0.91. Adjust per comment 12. d. Note 16: For existing T-L, DCA=0.95. For upgrade T-L, DCA= 0.99. Adjust per comment 12.	Done No – 0.72 applies.	LAM
17	33	Table 6.2: a. Include ":" at header of columns 5,6,7 after "Iteration #1", "Iteration #2", "Iteration #3" b. Cable 1HVCBBC532: Load ID should be 1HVC*FN1B-HTR c. Cable 1HVCBBC534: Load ID should be 1HVC*FN2B-HTR d. Cable 1HVCBBC536: Load ID should be 1HVC*ACU1B-HTR e. Cable 1HVCBBC539: Load ID should be 1HVC*FN8B-HTR and correct cable SYS no. from "HCV" to "HVC"	Done These cables no longer on table.	LAM

E-218 REV 1 Page

Attach. 24/33

Reviewed By:	Luis A Madero 1025	Date	3-3-97	Resolved By/ Date:	LEEaster 5/2/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	
Department:	Design Engineering/Fire Protection	Ext.	504 381-3625	Department/Ext.:	

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Technical Review Comments

Document Number	E-218	Rev. 1	Subject/ Title:	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

Document Type: Electrical Calculation

Special Notes or Instructions: This is a Rev. 1 draft **second submittal** from Duke Engineering & Services, Inc. for Entergy review. Initial EOI comments (a total of 30) were transmitted to Duke Engineering & Services via EOI letter no. RBG-43586 dated December 31, 1996.

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
17 (Cont'd)		f. Cable 1HVKBBC514, 1HVKDBC507: with 1.1 LF, Load=11.4A	Done	LAM
		g. Cables 1HVKBBC515, 1HVKDBC506, 1RHSBBC020: The HVK and RHS cables do not meet Iteration #1 by 0.9A and 0.3A (using a 1.1 LF for the RHS cable), respectively. A statement, in addition to what is in note 5, is suggested to further justify the small deficiency as negligible, for example: the tray is a control level raceway located at the bottom of the T-L enclosure which experiences a lower temperature than the upper power tray; in addition, the ADF was determined using the power tray as a model, application of this ADF to control tray cables is conservative; finally, inherent load diversity in the power and control trays was not considered in the calculation. h. Cable 1HVPBBC508: Load ID should be 1HVP*FN2B-HTR i. Cable 1JPBNRC501: FA/FZ should be AB-2/Z-2 j. Cable 1SCCARC566: Raceway should be 1TC205R k. Cable 1SWPARC074: For 1TC200R, 201R, 204R, & 205R, Iteration #1 DCA should be 4.3, 4.3, 4.0, & 3.7 l. Cable 1SWPARC077: For 1TC200R, 201R, 202R, 204R, & 205R, Iteration #1 DCA should be 4.4, 4.5, 4.3, 4.1, & 3.8 m. Cable 1SWPARC559: FLA, Load, and Iteration #1 DCA should be 4.6, 5.1, and 5.7, respectively (see comment 14d).	These cables no longer on table.	
18	41	Table 6.2.1: Delete tray 1TK512N (see comment 3), the asterisk and its accompanying note regarding T-L removal.	Done	LAM

E-218 REV 1 Attachment 8 Page 27/83

Reviewed By:	Luis A Madero LAM 1025	Date	3-3-97	Resolved By/ Date:	L E Easter 5/2/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	
Department:	Design Engineering/Fire Protection	Ext.	504 381-3625	Department/Ext.:	

ENTERGY

Technical Review Comments

Document Number	E-218	Rev. 1	Subject/ Title:	"Ampacity Verification Of Cables Within Raceways Wrapped With Appendix R Fire Protection Barrier"

Document Type: Electrical Calculation

Special Notes or Instructions: This is a Rev. 1 draft **second submittal** from Duke Engineering & Services, Inc. for Entergy review. Initial EOI comments (a total of 30) were transmitted to Duke Engineering & Services via EOI letter no. RBG-43586 dated December 31, 1996.

Comment Number	Page or Section	Comment	Response/Resolution	Accept Initials
19	41	Table 6.2.2: Delete cables 1LARNNK057 & 59 (see comment 3).	Done	LAM
20	41	Attachments 1 thru 4: For the next (final) submittal of E-218 Rev. 1, the PDMS reports should not contain hand corrections or typed lists of cables describing why they are not in the PDMS reports. All PDMS reports must contain the required data correctly and completely. Ensure that PDMS reporting problems are resolved. This also applies to the PDMS report in ER 96-0537 (see comment 13, item 1).	Done	LAM

E-218 REV 1 Page

Attachment 8 2 of 3

Reviewed By:	Luis A Madero LAM 1025	Date	3-3-97	Resolved By/ Date:	L E Easter 5/2/97
Organization: Entergy Operations, Inc., River Bend Station				Organization:	
Department:	Design Engineering/Fire Protection	Ext.	504 381-3625	Department/Ext.:	

ENTERGY	CALCULATION ENGINEERING DEPARTMENT RIVER BEND STATION	CALC. NO. - REV. ADDENDUM E-218 Rev. 1 ATTACHMENT NO.: (as required) JBI NO.: PAGE OF

CALCULATION CHECKLIST

YES	NO	N/A	FORMAT	EDP-AA-20 SECTION
✓			Cover Page completed.	6.4.1
✓			Table of Contents completed (as required).	6.4.2
✓			Revision History Sheet completed (as required).	6.4.3
		✓	Revisions are identified with revision lines in right margin.	6.4.3
✓			Applicable Documents Page completed.	6.4.4
		✓	Definitions established (as required).	6.4.5
✓			Calculation/revision/addendum/page numbers are identified correctly.	6.4.10
			CONTENTS	
✓			Previous calculation for the required analysis exists.	6.3
✓			Calculation is appropriately titled for the intended scope.	6.4.1-2
✓			Purpose and scope are clearly and adequately established.	6.4.1-7, 7.1
✓			Safety classification is correct for the identified scope.	6.4.1-6
✓			Topics/documents/equipment for cross-reference/retrieval are identified.	6.4.1-11
✓			Calculation is clear and comprehensible.	6.1
✓			Applicable codes, standards, etc. are identified.	6.4.4-1
✓			RBS references are identified.	6.4.4-2
✓			Affected documents are identified.	6.4.4-3
✓			Inputs and sources are identified, appropriate, and correct.	7.2.2-1
✓			Assumptions are identified and appropriate.	7.2.2-2
✓			Inputs derived from field walkdown have been witnessed/verified.	7.2.2-5
		✓	Engineering judgments are identified and appropriate.	7.2.2-6
✓			Calculation methodology is identified and supported by technical bases.	7.2.3
✓			Conclusion is appropriate and is justified by calculation.	7.3
		✓	Confirmations are identified and indicated as required on Cover Page.	7.5.7
		✓	Directions for Confirmations are included.	7.5.7-3
✓			Calculation data is appropriately included, attached, or referenced.	7.4
✓			Programs and software are identified and have been verified and validated.	8.0
✓			Methods/calculations use to check results are identified and included.	
		✓	Results are accurate and in accordance with the established methodology.	
		✓	Certification by Professional Engineer is required.	11.7
			VENDOR CALCULATIONS	
			Calculation is performed in accordance with EDP-AA-25.	10.2
			Calculation content and format are acceptable.	10.2
			Vendor, preparer, reviewer, and approver are clearly identified.	10.3
			Design verification/review has been completed (as applicable).	

Preparer (Signature/KCN or SSN/Date): [signature] 9/26/97

Reviewer (Signature/KCN or SSN/Date): [signature] 050 9/26/97

ENTERGY	ATTACHMENT I Page 1 of 2	ES-P-002-00
	Typical Design Verification Record	

Page _____ of _____

Document Number E-218 Revision 1

METHOD

Verification methods to be used:

X Design Review
_____ Qualification Testing
_____ Alternate Calculations

DOCUMENT(S) REVIEWED: (Attach Additional Sheet(s), if needed)

Document Number	Revision	Document Title
ER 96-0537 CN02	0	Revised Cable Derating Factors for Fire Wrapped Cables in PDMS
GB.18.14.0-178	0	Ampacity Derating Factors for Thermo-Lag 330-1 Enclosures

SUMMARY OF REVIEW: (Attach Additional Sheet(s), if needed)

A re review of all values from the GB.18.14.0-178 Rev 0 calculation were checked for latest Derating values. A review of references was performed.

Design Verification Completed By Evan J Hearon Date: 9/21/97

Comment Resolutions Accepted By Evan J Hearon Date: 9/26/97

Engineering Supervisor _____ Date: _____