

DAMMON ENGINEERING, INC.

dammonengineering.com

ARCHITECTS

ENGINEERS

CONSULTING

DESIGN

STUDIES

EXPERT WITNESS

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April 27, 2012

Hoang Do
Building Plan Examiner. Plan Review Division
Department of Safety and Permits
1300 Perdido Street
Room 7E06
New Orleans, LA 70112

RE: Permit # 12COM-OO403 DENTAL OFFICE

Mr. Do:

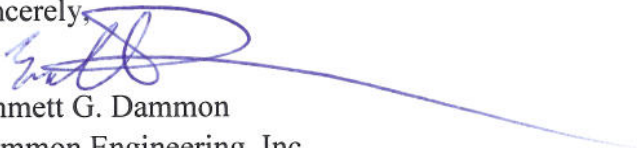
Per your request, via email, dated April 24, 2012, please accept this formal response to your comments.

Electrical:

- 1) Added note on dwg that all wiring shall be per NEC 2008 edition.
- 2) There are only three dental chairs that will receive gas, so neither backup generator nor UPS is required per NEC 2008.
- 3) Added outlets to dwg for the AHU units above the ceiling.
- 4) Please see the attached available fault current calculation.

Thank you for your help in this matter.

Sincerely,


Emmett G. Dammon
Dammon Engineering, Inc.

Attachment: revised dwg and calculation sheet.

DR. JONES

DAMMON ENGINEERING

Available Fault Current Calculation

by John Sokolik Ver. 7.2
jmp1ids@comcast.net

Utility Fault Current amperes kVA =
 $I = \frac{kVA \times 1000}{E} = \text{trans. FLA}$ = trans. FLA =

$I_{sca} = \frac{\text{trans. FLA} \times 100 \times PF}{\text{transformer } Z}$ =
 I_{sca} = ampere short-circuit current RMS symmetrical. I_{sca} = amperes

Point to Point Method Length (distance) FEET L =
 (ASC) I_{sca} = Select Conductor & Raceway

'f' factor = $\frac{2 \times L \times I}{N \times C \times E_{L-N}}$ # conductors per phase N =
 Phase conductor constant C = Phase Conductor
 Volt Line to Line E_{L-L} = Volt

Multiplier Neutral conductor constant f =
 Volt Line to Neutral E_{L-N} = Volt Neutral Conductor
 f =

$M = \frac{1}{1 + f}$ Line to Line M =
 Line to Neutral M =

Fault Current at Service Equipment
 $I_{sca} \times M$ = fault current at terminals of main disconnect L-L = amperes
 $I_{sca} \times M$ = fault current at terminals of main disconnect L-N = amperes