



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO. OSP – 0105-10
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Check whether application is: NEW RENEWAL

1.0 Greenheck Fan Corporation David Berg
Manufacturer *Manufacturer's Technical Representative*
 400 Ross Avenue, Schofield, WI 54476

Mailing Address

715-355-6628
Telephone

David.berg@greenheck.com
E-mail Address

2.0 LFC Air Handling Units Air Handling Equipment
Product Name *Product Type*

LFC-15-L-FC, LFC-20L-FC, LFC-25L-FC, LFC-30L-FC, LFC-45L-FC, LFC-50L-FC, LFC-65L-FC, LFC-85L-FC

Product model No (List all unique product identification numbers and/or serial numbers)

General Description: The Greenheck Model LFC (Low-Profile Fan Coil) line consists of low-profile horizontal fan coil suspended units available in eight sizes. The units are designed for air conditioning and/or heating, and feature a forward curved wheel and an option of up to 8 rows of heating and cooling coils.

3.0 Greenheck Fan Corporation Rebecca Gatzke
Applicant Company Name *Contact Person*
 400 Ross Ave., Schofield, WI 54476

Mailing Address

715-355-6524
Telephone

Rebecca.gatzke@greenheck.com
E-mail Address

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.

Rebecca Gatzke

August 11, 2010

Signature of Applicant
General Manager

Date
Greenheck Fan Corporation

Title

Company Name



Registered Design Professional Preparing the Report

4.0 Dynamic Certification Laboratories, LLC
Company Name

Ahmad Itani, SE SE-5220
Contact Name California License Number

1315 Greg Street, Suite 109, Sparks, NV 89431
Mailing Address

(775) 358-5085 Itani@shaketest.com
Telephone E-mail Address

California Licensed Structural Engineer Review and Acceptance of the Report

5.0 Dynamic Certification Laboratories, LLC
Company Name

Ahmad Itani, SE SE-5220
Contact Name California License Number

1315 Greg Street, Suite 109, Sparks, NV 89431
Mailing Address

(775) 358-5085 Itani@shaketest.com
Telephone E-mail Address

Anchorage Pre-Approval

6.0

Anchorage is pre-approved under OPA-
 (Separate application for anchorage pre-approval is required)

Anchorage is not Pre-approved

Certification Method

7.0 Testing in accordance with: ICC-ES AC-156 Other (Please Specify):

Analysis

Experience data

Combination of Testing, Analysis, and/or Experience Data (Please Specify):

Testing Laboratory (if applicable)

8.0 Dynamic Certification Laboratories Austin Brown, PE, Laboratory Manager
Company Name Contact Name

1315 Greg Street, Suite 109, Sparks, NV 89431
Mailing Address

(626) 445-0366 Austin@shaketest.com
Telephone E-mail

2/A



Approval Parameters

9.0 Design in accordance with ASCE 7-05 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 2.70g

S_{DS} (Spectral response acceleration at short period) = 1.50g

a_p (In-structure equipment or component amplification factor) = 2.50

R_p (Equipment or component response modification factor) = 2.50

I_p (Importance factor) = 1.50

z/h (Height factor ratio) = 1.0

Equipment or Component fundamental period(s) = N/A

Building period limits (if any) = NONE

Overall dimensions and weight (or range thereof) = SEE ATTACHMENT # 1

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Spectral response acceleration at short period) = 2.0

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient) = 1.0

Ω_0 (System overstrength factor) = 1.0

C_d (Deflection amplification factor) = 1.0

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007: Yes No

11.0 List of attachments supporting the special seismic certification of equipment or components:

- Test Report
- Drawings
- Manufacturer's Catalog
- Calculations
- Others (Please Specify):

11.0 OSHPD Approval (For Office Use Only)

8/12/10

December 31, 2016

Signature & Date

Chris Tokas, SHFR

Name & Title

Approval Expiration Date

S_{DS} (g) = 1.50 z/h = 1.0

Special Seismic Certification Valid Up to

Condition of Approval (if any):

ATTACHMENT #1

Greenheck Fan Corporation

400 Ross Avenue, Schofield, WI 54476

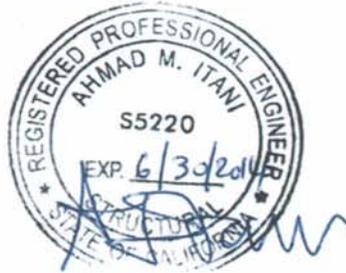
((●)) DCL Dynamic Certification Laboratories

OSHDP PRE-APPROVAL OSP FOR SPECIAL SEISMIC CERTIFICATION

AIR HANDLING EQUIPMENT: LFC Air Handling Units

July 20, 2010

I, Dr. Ahmad Itani, S.E. Certify that I have reviewed all submitted test data for the equipment included within this OSHDP OSP Pre-Approval and have found it to be in compliance with the current code requirements for Special Seismic Certification.



Model No.	Unit	WEIGHT ± (lbs)	LENGTH (in)	HEIGHT (in)	WIDTH (in)	Enclosure	Mounting
LFC-15L-FC	UUT2	270	42.0	11.0	38.0	NEMA 1	Hanging
LFC-20L-FC	-	330	42.0	14.0	38.0	NEMA 1	Hanging
LFC-25L-FC	-	400	42.0	16.0	38.0	NEMA 1	Hanging
LFC-30L-FC	-	460	47.0	18.5	38.0	NEMA 1	Hanging
LFC-45L-FC	-	560	47.0	18.5	50.0	NEMA 1	Hanging
LFC-50L-FC	-	660	50.0	21.0	50.0	NEMA 1	Hanging
LFC-65L-FC	-	780	54.0	26.0	50.0	NEMA 1	Hanging
LFC-85L-FC	UUT1	890	54.0	26.0	62.0	NEMA 1	Hanging