



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.
OSP – 0039-10

Check whether application is: NEW RENEWAL

1.0 NEC Corporation of America J. R. "Randy" Gwinnett
Manufacturer *Manufacturer's Technical Representative*
6535 North State Highway 161 Irving, TX 75039
Mailing Address

214-262-2501 Randy.Gwinnett@necam.com
Telephone *E-mail Address*

2.0 UNIVERGE SV8500 Voice Communications Server
Product Name *Product Type*

SEE ATTACHMENT 1

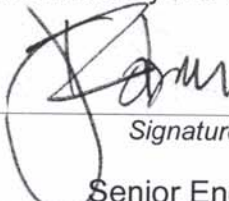
Product model No (List all unique product identification numbers and/or serial numbers)

General Description: Voice Communications Server providing telecommunications services via Voice over IP (VoIP) and/or TDM (Time Division Multiplexing) connections. The UNIVERGE SV8500 is used for Enterprise class telecommunications deployments in various business, healthcare, hospitality, educational and other facilities or operations. The SV8500 is a modular system mounted in a seismic qualified 19" rack. OSHPD approval of the Special Seismic Certification is contingent on use of a base-mounted Chatsworth 13855-703 rack.

3.0 **EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING** JONATHAN ROBERSON, S.E.
Applicant Company Name *Contact Person*

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Mailing Address
406-541-3273 jon@easeco.com
Telephone *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.


Signature of Applicant
Senior Engineer
Title

February 12, 2010
Date
EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING
Company Name



Registered Design Professional Preparing the Report

4.0 EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING

Company Name

JONATHAN ROBERSON, S.E.

S4197

Contact Name

California License Number

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Mailing Address

406-541-3273

jon@easeco.com

Telephone

E-mail Address

California Licensed Structural Engineer Review and Acceptance of the Report

5.0 EQUIPMENT ANCHORAGE AND SEISMIC ENGINEERING

Company Name

JONATHAN ROBERSON, S.E.

S4197

Contact Name

California License Number

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Mailing Address

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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

Environmental Testing Laboratory, Inc.

BRADY RICHARD

Company Name

Contact Name

11034 Indian Trail, Dallas, TX 75229-3513

Mailing Address

(972) 247-9657

brady@etldallas.com

Telephone

E-mail:



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) = 1.39

S_{DS} (Spectral response acceleration at short period) = 1.93

a_p (In-structure equipment or component amplification factor) = 1.0

R_p (Equipment or component response modification factor) = 2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component fundamental frequency(s) = 10.5 Hz Front | 9.2 Hz Side | 11.2 Hz Vertical

Building period limits (if any) = NO LIMIT

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) =

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

10.0 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)

Chris Tokas

Signature & Date

Chris Tokas, SHFR

Name & Title

3/2/10

December 31, 2013

Approval Expiration Date

S_{DS} (g) = 1.93 z/h = 1.0

Special Seismic Certification Valid Up to

Condition of Approval (if any):

**APPLICATION FOR PREAPPROVAL
SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS**

ATTACHMENT 1

The NEC Corporation of America Univerge SV8500 is a modular system mounted in a seismically qualified 19" rack manufactured by Chatsworth. The system components are defined in the table below:

Description	Model No.	Width (in.)	Depth (in.)	Height (in.)	Weight (lb.)
Mounting Rack	Chatsworth 13855-703 Seismic 19INX7FTH #12 BK	19	13	84	180
UNIVERGE SV8500 Chassis	SN8154 BCSEA-A	19	19	5.2	33.5
UNIVERGE SV8500 Gateway Chassis	SN8153 PIREE-A	19	20.88	14	52.75
UNIVERGE SV8500 Fan Unit	SN1747 FANUY-A	19	16.12	1.81	11.5
UNIVERGE SV8500 Power Rack	GPP1U RACK AA	19	14.88	1.55	15.75

Note: OSHPD approval of the Special Seismic Certification is contingent on the use of a base-mounted Chatsworth 13855-703 rack.