

Glanda Thomas

From: Bhol, Saroj [sbhol@panynj.gov]
Sent: Monday, October 02, 2006 9:30 AM
To: Glanda Thomas
Subject: FW: Freedom Tower - Structural Steel Design
Attachments: WSPCS- WTC-T1-memo -65 ksi steel.pdf

Glanda,

This is what I sent on last Friday. Can you please print for Fatma to see this?

Thanks

-----Original Message-----

From: Bhol, Saroj
Sent: Friday, September 29, 2006 11:37 AM
To: Fatma M. Amer (E-mail)
Cc: Lin, C. John; Palmieri, Mario; Tsin, Valery
Subject: Freedom Tower - Structural Steel Design

Fatma,

We have a request from the structural engineer for the Freedom Tower for the use of 65 ksi steel and LRFD method based on IBC 2003. The Department of Buildings approved a similar design for 300 Madison Avenue. Please see the attachment.

Do you see any issue in accepting this for the Freedom Tower?

Thanks

Saroj

<<WSPCS- WTC-T1-memo -65 ksi steel.pdf>>

10/2/2006



WSP CANTOR SEINUK
STRUCTURAL ENGINEERS

MEMORANDUM

TO: ANGELO ARZANO
FROM: AHMAD RAHIMIAN
PROJECT: WORLD TRADE CENTER- TOWER 1
SUBJECT: SEISMIC DESIGN AND STRUCTURAL STEEL
DATE: SEPTEMBER 8, 2003
CC:

Please forward the following requests to PANY&NJ for their review and approval.

- 1- We would like to request using Load Resistance Factored Design (LRFD) for design of all components of the steel structure including seismic resisting elements following IBC-2003 using the local site and seismic factors.
- 2- We also request using ASTM A913 Grade 65 as part of the main vertical seismic load carrying elements. This steel is approved by ASTM, AISC, and IBC codes.

I would like to point out these requests were granted previously by the NYC DOB on other projects such as 300 Madison Avenue where incidentally SOM is the Architect of Record, see attached letter from NYC DOB.



DEPARTMENT OF BUILDINGS

EXECUTIVE OFFICES
60 HUDSON STREET, NEW YORK, N.Y. 10013-3394
Satish Babbar, R.A., Acting Commissioner
(212) 312-8900, TTY: (212) 312-8183
Website: nyc.gov/buildings

April 10, 2001

Ronny A. Livian, P.E.
Deputy Commissioner
Technical Affairs
(212) 312-8324
Fax: (212) 312-4189

Mr. Ramon Gilsanz, P.E.
Gilsanz, Murray, Siedlecki, LLP
95 University Place, 3rd Floor
New York, NY 10003

Re: 300 Madison Ave.
RS 10-5G
Seismic Design

Dear Mr. Gilsanz:

This is in response to your letter of February 12, 2001 and March 26, 2001 regarding application of Seismic Design to the above new structure.

The Department agrees that ASTM A 913 grade 65 steel may be permitted for columns. The Department also agrees that load and resistance factor design for all members of a structure, may be used per your 2000 edition of FEMA seismic recommendations, and 1999 edition of BOCA National Building Code, 1997 edition of Uniform Building Code, and 2000 edition of the International Building Code.

If you have any questions please contact me at 212/312-8324.

Sincerely,

Ronny A. Livian, P.E.
Deputy Commissioner

RAL:dw

c: Satish K. Babbar, R.A.
Nick Grecco, P.E.
Manish Shah, P.E.
Laura V. Osoff, R.A.