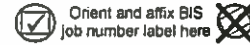




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Page number 1 of 4

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1 Location and Job Information Required for all applications.

House No(s) 401

Street Name 9th Avenue

Borough Manhattan

Block 00729

Lot 00060

BIN 1800650

CB No. 104

2 Revisions to Plans/Drawings Required whenever updating plans. All revisions for each page must be clearly described in section 3.

Submission is part of a Post Approval Amendment (PAA)? ☐ Yes PW1 required ☒ No Indicate all actions for this submission:

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Is this section continued on additional AI1 forms? ☒ Yes ☐ No

3 Additional Information Required for all applications.

Response to Comments:

Comment 1) M-500: 5 cooling towers indicated, none on standby. However, model indicates 1 on standby. Clarify.
Response 1) Model changed to have 5 cooling towers.

Comment 2) M-502: Heating and Ventilating Systems – HV-4-1A,B,C,D, HV-68-1 & 2. outdoor air CFM does not align with DOAS-SYS in SV-A.

Response 2) The outside air in the energy model now aligns with the outside air in the Mechanical Schedules. The OA is given in M-505 as 4000 CFM for each office floor. This adds up to total 248,000 CFM. The Heating and Ventilating Systems – HV-4-1A,B,C,D, HV-68-1 & 2 have the capacity to provide a total of 350,000 CFM but the CFM used is 248,000 CFM. We have modeled 248,000 CFM OA as per M-505.

Comment 3) M-502: Heating and Ventilating Systems – HV-5-1,2,3,4,5,6,7, HV-68-3,4,5. unable to verify these systems are in the model. Identify system names from M-502 with SV-A

Response 3) We have revised the energy model to name the systems as per the Mechanical Schedules.

Comment 4) M-502: Factory Assembled & Field Erected Central AC System – AHU-4-1, 2A, 2B missing capacity information, efficiencies. CFM/Fan Power does not align with LOBBY-SYS from SV-A. Clarify.

Response 4) These systems have been removed from the mechanical schedules and replaced with water-cooled DX units in M-505. The model is revised accordingly.

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Name (please print)

Adrian Tuluca

Signature

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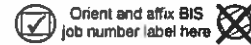


Date

7/16/15



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House No(s) 401

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Borough Manhattan

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Response to Comments:

Comment 5) M-504: Lobby Fan Coil Units – Type A,B,C . Clarify how these are modeled. Included in LOBBY-SYS?
Response 5) The lobby is conditioned by water cooled DX units and fan coil units. The simulation program cannot model two types of systems for the same zone. We modeled the lobby as conditioned by water cooled DX units. The cooling efficiency of the water cooled DX units is lower than that of the chiller, therefore this is a conservative approach. Additionally, we modeled the fan energy for the fan coil units separately as a schedule with continuous constant-volume operation during the hours of occupancy

Comment 6) M-505: Condenser Water Packaged AC Units – missing information. Must use code default information for efficiencies if not included in the drawings. Align unit names from M-505 with SV-A. For example, AC-B1-1, AC-B2-1, AC-B3-1, does not align with BOH-SYS from SV-A.

Response 6) The missing information is now included in the mechanical schedules. We have updated the energy model to align the unit names.

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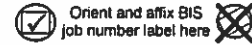
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3 Additional Information Required for all applications.

Response to Comments:

Comment 7) M-505: Chilled Water Packaged AC Units – Align unit names from M-505 with SV-A. Unable to identify these systems in model.

Response 7) These units are included in EMR-SYS.

Comment 8) SV-A: Align unit names from M-dwgs. For example, 4-IT-SYS thru 68-IT-SYS, which systems are these?

Response 8) We have updated the energy model to align the unit names.

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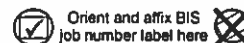
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Response to Comments:

Comment 9) M-dwgs: Missing Cogen information. Energy Report Summary includes information about Cogen (i.e. efficiencies) that is not in the M-dwgs. Provide fuel input for Cogen.

PS-C/PS-E: Elec-DHW-Heater has varying usage and differing peak demand between baseline and design. Should be identical.

Response 9) Drawings revised to provide missing information.

Elec-DHW-Heater has varying usage and differing peak demand between baseline and design due to the cogeneration plant. Otherwise it has been modeled identically in Design and Baseline.

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