



## Engineering - Global Design Strategies MEP Review Comments (*Franchised Projects*)

Prepared by: Julius Stone  
To: Agila Kumar  
Date: October 2, 2017  
Subject: Review of MEP 90% Set (dated 4/20/2017) (\*)  
**Written response and resubmission required**  
Project Name/Number: TPS – LA Denham Springs (#9315)

**\*Please note that the scope of this review is limited to the following specific design items, and should not be construed as a comprehensive review of the project mechanical, plumbing and electrical design, unless specifically noted otherwise. Refer to Module 15 of Marriott Design Standards for other requirements.**

General: 80 keys, 4 stories  
Mechanical

### 1 General

- a Show gridlines, room names and numbers on all floor plans for coordination.
- b Provide schedules for diffusers and grilles.
- c Heat pump schedule: provide 2-step control for all electric heaters.

### 2 DOAS (MUA-1 and 2)

- a Entering conditions selected are acceptable.
- b Operate units on static pressure sensors in supply duct, to ensure guest floor corridors are not over-pressurized.
- c 1<sup>st</sup> Floor: deliver OA directly to occupied space of each zone served, instead of mixing with return air at AH units, for optimal performance in dehumidification.

### 3 Guestroom floors

#### a Bathroom exhaust:

- i EF-1 as specified has sound rating higher than requirement (1.0 sone maximum). Verify and re-select as required.
- ii With combination of bathroom fan (EF-1) and roof fan, the roof fans must be selected based on 20 cfm per guest unit, instead of 50 cfm, to avoid placing all guest units under perpetual negative pressure. Revise fan selections accordingly.
- iii Ductwork: connection of branch duct (discharge of EF-1) to riser must have either fire damper or meet NFPA sub-duct requirement. Revise as required.
- iv

#### b PTAC

- i Model specified acceptable, however OA rate must be revised to 35 cfm (per manufacturer's literature). Revise schedule accordingly.
- ii Confirm that sub-base is provided. *maybe PTAC schedule is not 4500 AM101*
- iii Condensate drain: provide risers. Horizontal runouts is not recommended as it would adversely impact ceiling height of guestrooms and corridors. *This demonstrated on M105*
- iv Confirm that OA intake of PTACs maintain a minimum distance of 10 feet from any source of exhaust, including discharge from condensing units on ground and equipment such as water heaters. Revise design as required. *20*

*I can change this if you approve*

*do you want me to*

*If you want I will add to riser*

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