

Kitt Peak WIYN Renovations

Request for Clarification

Date	Number	Scope	Question
7/20/2017	1 ✓ TAB is acceptable	Test & Balance	<p>General Air Control is proposing only the following clean room testing be performed:</p> <ol style="list-style-type: none"> 1) Temperature and relative humidity. 2) Room pressurization/cascade. 3) The HEPA filter will be challenged using POA, not PSL (DOP not to be used). HEPA filter challenge will be done once, after installation. 4) Particle count will be completed per IES-RP-006. Testing will only be done in an as-built mode. <p>A Lighthouse Solair 3100 will be used for particle counting. It receives an annual certification. Please see attached information.</p> <p>The following procedures are consistently used by GAC on certification of previous class 100K clean room designed by Advantech Facility Design.</p>
7/20/2017	2	HVAC Insulation	<p>The specification book calls out for 1-1/2" inside, 2" outside on ductwork.</p> <p>Sheet M9.3 (Duct Insulation) calls out for the same inside but 4" outside. ✓ Outside HVAC insulation shall be 4" with sealed seams</p>
7/20/2017	3	Guarantee Time Period	<p>Sheet G1.0 Note 14 requires Two (2) year guarantee from the time of substantial completion. Sheet M0.0 Note 27 requires One (1) year guarantee from date of final acceptance. ✓ Two year guarantee</p>
7/20/2017	4	AHU ✓ As long as	<p>For AHU-1 & 2 we request to bid Trane 3" foam double walled units with an R Value of 19. These units meet or exceed the casing deflection and leakage rates of the specified 4" units plus have a no thru metal design which the specified unit does not have.</p> <p>As performance meets or exceeds requirements Trane units are acceptable.</p>
7/20/2017	<u>TO COME</u> 5	Ductwork Supports	<p>Are the new exterior duct supports to match the existing which appear to be welded steel channels and angle stands which are welded and painted? Detail 6 on M5.2 calls out for the pipe supports to have 12" deep concrete footers. Is there a detail or requirements for the ductwork?</p>
7/20/2017	7	Duct Insulation	<p>Sheet M9.3 states that rectangular duct is lined but note #3 says all interior duct wrapped. Please advise. ✓ No lined ductwork. All externally wrapped</p>
7/20/2017	8	Duct Insulation	<p>Sheet M9.3 Note 4 states exterior insulation shall be 4" wrap. Spec section 15080 3.15A Schedules shows 2". Please advise.</p>

✓ Exterior ductwork shall be insulated with 4" wrap.