



**RESPONSES AND CLARIFICATIONS TO  
F15-04: INSTALLATION, REPAIR AND PROGRAMMING SERVICES  
AT SAN BERNARDINO HIGH SCHOOL  
October 21, 2014**

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1. New condensing units on the roof:
  - a. Do we need new platform(s)? Please provide details  
The Condensing unit(s) will be small, so they can be mounted on uni-strut.
  - b. Does the existing structure need to be reinforced. Please provide details?  
No
2. Please advise the routing for the refrigeration lines, or any restriction?  
No restrictions.
3. What is the type of existing roofing?  
Henry four ply
4. Is the roof under warranty?  
Yes
5. Is there a roofing company that presently has services the existing roofing?  
Maintenance and Operations
6. Is there any off hours work required  
Work to take place during winter break.
7. Is test and balance required?  
Yes, to determine the pump settings for the Condenser Water system. No TAB for the split units.
8. Is there any fire alarm requirement?  
No, since the units are ductless, less than 2,000 CFM and the duct does not penetrate walls coming from adjacent spaces.
9. Any estimate for the project?  
No.
10. What the internal heat load is for the Storage/IT room and electrical room? We need to know what size split units are needed.  
Unknown at this time. It is up to the contractor to determine the internal heat load as part of the project.
11. Regarding Summary of Work, section 01 11 00
  - a. Scope 1: Please provide the HP and voltage for the CW pumps.  
P-3 and P-4 are Armstrong 660 GPM, 30 FT, 6X6X8, WEG motor, **10 HP**, 480V/3Ph/60Hz, 12.2 FLA
  - b. Scope 2 : Please provide the HP and voltage for the CHW pumps.  
P-1 and P-2 are Armstrong 590 GPM, 50 FT, 8X8X10, WEG motor, **15 HP**, 480V/3Ph/60Hz, 18.6 FLA



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Scope 3:

- c. Replacing /fixing the motor is required. Please confirm that this refers to the return fan motor only and if the problem is with VFD, the cost should not be included in the bid.

The problem is not the VFD, but provision to replace the VFD should only be included on a T&M basis.

- d. Contractor to provide means of access to the roof. Please clarify if the intention is to provide a permanent roof access and if yes please provide information on type of permanent ladder required.

No permanent access is required. The contractor shall provide temporary access to do the work only. Consider that in the worst case the contractor shall be able to lift the motor to the roof level.