



Nielson Engineering, Inc.

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Electrical · Mechanical
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INDIAN HILLS BOILER/COOLING TOWER Addendum #1

MECHANICAL

1. Delete the cooling tower size and model #, CFM and hp.
2. Provide the following:
 - a. Cooling tower model #, CFM and hp.
 - b. Loads: Reymsa RTU-60617.5, 25,900 CFM, 7.5 hp.
 - c. The operating weight is 3,462 lbs.

ELECTRICAL

To address the Cooling Tower, CT-3 being 7.5 hp not 3 hp as originally specified make the following changes:

1. Provide and change VFD-3 to be type ABB #ACS580-01-031A-2
 - a. Frame Size: R2, Dimensions 19.80"H x 5.1"W x 9.41"D
 - b. Driver Current: 24.2 A
 - c. 40 Amp Class T (JJS-40) Internal fuse
 - d. NEMA 1
2. Gut existing bucket CT-1 overcurrent protection and controls. Provide and retrofit bucket with 3-pole, 40 amp, 65 kAIC thermal magnetic breaker (SQ. D #HG36040*) for pump VFD overcurrent protection. *=Field verify breaker mounting in MCC bucket configuration as well as existing disconnect arm mechanism compatibility prior to purchase.
3. Provide and install general duty, 240V, 3-pole, 60 amp, NEMA 3R, fused disconnect switch (SQ. D #D322NRB or approved equivalent) with 40 amp dual element time delay fuses at cooling tower for the cooling tower CT-1 disconnecting means.
4. Conductors from MCC OCPD load terminals to VFD, VFD to disconnect, and disconnect to CT-1 point of connection shall be three (3) #8 AWG THWN + one (1) #8 GND in ¾" Conduit.