HLP SITE CONSTRUCTION/INSTALLATION CHECKLIST

(LAST REVISION 9/26/07 DEJ)

I. BUILD VAULT
- A. lay out site (solar panels facing south, and downhill of vault)
- B. dig hole for vault and action packer and trench between
- C. 2 bags of concrete in hole
- D. set barrel and level
- E. 1 bag of concrete in vault and trowel flat

II. SOLAR PANELS
- A. trench 8-10 ft to solar
- B. drive two 6' steel posts for solar panel
- C. construct solar mounts
  1. drill holes in Carlson frames and pull rebar through
  2. mount solar panels using wire ties and bolt panels together
  3. mount GPS on reduced (1 ½") section

III. LAY PIPING
- A. cut and dry fit
- B. run wire (GPS and solar)
- C. Prime and glue PVC from solar to T

IV. INSTRUMENT & DAS (in tandem) ***[Follow Q330 or RT130 install sheet]***
- A. Instrument
  1. vault documentation (to be written on vault floor):
     a. 'N' arrow
     b. station name
     c. declination
  2. align, level, lock feet, and burp (Guralp only) instrument, and unlock masses (Streckeisen and Guralp ESP only)
- B. DAS
  1. connect batteries & solar to power box
  2. connect GPS & power to DAS
  3. start station log sheet -> program DAS
- C. connect instrument (& HCU for Guralps) -> check instrument
  1. Guralp (using HCU):
     a. lock masses
     b. unlock masses: check to see they unlock and center
     c. re-lock masses
  2. Streckeisen
     a. check masses
     b. center masses
     c. monitor channels

V. FINISH VAULT

A. install hut & RPBs (don't forget cork)
B. close lid vault
C. check instrument
D. bury vault and pipes
E. start acquisition
F. cork GPS/solar and DAS
G. cover action packer with tarp and rocks

VI. BUILD FENCE:

A. Four braced corner posts (8 6' steel posts)
B. Run three-strand barbed wire
C. Two intermediate posts to tighten barbed wire