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### **Seiler CORS Checklist & Procedures for Trimble NetRS Base Station Install**

- A. Site: The site needs to be in a wide open area with a view to the sky down to an elevation of 10 degrees above the horizon. The monumentation needs to be stable and secure. Ideal buildings are brick and two stories or less in height.  
[http://www.unavco.org/facility/project\\_support/permanent/monumentation/monumentation.html](http://www.unavco.org/facility/project_support/permanent/monumentation/monumentation.html)  
[http://www.ngs.noaa.gov/CORS/Coop/the\\_details.html](http://www.ngs.noaa.gov/CORS/Coop/the_details.html)
- B. Power: It is desired to have the system surge protected as well as running on a UPS for a several minutes in the event of a short term power outage.
- C. Internet: The internet connection needs to be reliable and secure and needs to be a DSL or T1, T2 or T3 line. Reliable service is the key.
- D. Security: The installation needs to be secure from Vandals or theft.
- E. Documentation: In Specific there needs to be a complete list of all pertinent information relevant to the base installation including the Site Name, Point of contact, phone number, e-mail address, NetRS serial number, Antenna Serial Number, Address of Location, Internet IP address, Port Number, Radome type if any, Published position in Nad 83 Cors 96 and ITRF.  
  
[http://www.ngs.noaa.gov/CORS/Becoming\\_a\\_CORS.html](http://www.ngs.noaa.gov/CORS/Becoming_a_CORS.html)
- F. Stability: The base site needs to be stable to within plus or minus 10 millimeters of movement throughout a month's time.
- G. Accessibility: The site needs to have controlled access for periodic service and maintenance.
- H. Maintenance:
- I. Mounting & Installing Hardware: The mounting hardware consists of a 5/8 X 11 threaded end of a threaded pipe or all thread  
[http://www.unavco.org/facility/project\\_support/permanent/equipment/mounts/mounts.html](http://www.unavco.org/facility/project_support/permanent/equipment/mounts/mounts.html)
- J. Lightning Protection: It is advised to have lightning protection systems installed with the CORS base including inline coaxial lightning arrestors as well a static dissipater kit near the site.  
[http://www.unavco.org/facility/project\\_support/permanent/equipment/lightning/lightning.html](http://www.unavco.org/facility/project_support/permanent/equipment/lightning/lightning.html)  
[http://www.citelprotection.com/citel/p8ax\\_details.htm](http://www.citelprotection.com/citel/p8ax_details.htm)  
[http://www.lightningmaster.com/web\\_catalog.htm](http://www.lightningmaster.com/web_catalog.htm)

K. Receiver Hardware. It is advised that the base receiver be a Trimble NetRS receiver with Zephyr Geodetic Antenna. And without any radomes!

[http://www.ngs.noaa.gov/CORS/CorsPP/forum2004/ray\\_files/frame.html](http://www.ngs.noaa.gov/CORS/CorsPP/forum2004/ray_files/frame.html)

	NetRS with VRS site license bundle Includes: NetRS base bundle with Zephyr Geodetic antenna kit and 256mb memory GPSNet site license	<b>\$19,495.00</b>
44056-12		
44056-04	GPSNet software site license for each additional Reference station over the initial four	<b>\$5,000</b>



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