

# Summary of Modifications/Changes in this Update

This Summary of Changes is for information only.  
It is not a part of the referenced document, and should not be used for project documentation.

U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

## DATE OF THIS VERSION:

October 1, 2023

## TITLE OF DOCUMENT:

GNSS Reference System, 11 83 00

## DATE OF VERSION BEING SUPERSEDED (old):

January 1, 2018

## DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

GNSS Reference System, 11 83 00

## SUMMARY OF CHANGES IN THIS VERSION:

1. Added "latest edition" to reference to NGS published *Guidelines for New and Existing Continuously Operating Reference Stations (CORS)*.
2. Clarified that Contractor shall provide an Operations and Maintenance (O&M) Manual.
3. References of ALNC and IGNC were deleted as the references could not be confirmed.
4. Clarification of submittal requirements.
5. Clarification of the Quality Control program to avoid using words insure and ensure.
6. For the GNSS Receiver added the requirement for hot swappable batteries to provide 15 hours of backup, thereby eliminating the need for a 30 minute UPS.
7. Added GNSS Receiver network connectivity.
8. Clarified frequency ranges for the Radio Transmitter for Base Station.
9. Deleted reference to "Earl Conic" aluminum mast as it could not be confirmed. Specified that mast should be stainless steel to eliminate dissimilar metals problem with base mounts.
10. Deleted reference to "small cross-sectional area" of the GNSS antenna as this is not defined.
11. Update operating temperature range for the GNSS antenna.
12. Specified 450 MHz radio receiver for rover unit.

13. Deleted requirement for a UPG providing 30 minutes of power to the GNSS receiver due to the inclusion of hot swappable batteries for the receiver.
14. Clarified the Reference Monument depth requirements and deleted SPEC WRITER NOTE.
15. Corrected misspelling of work in EXECUTION SPEC WRITE NOTES

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## **DATE OF THIS VERSION:**

January 1, 2018

## **TITLE OF DOCUMENT:**

Global Navigation Satellite System (GNSS) Reference System, 11 83 00

## **DATE OF VERSION BEING SUPERSEDED (old):**

May 1, 2016

## **DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

Global Navigation Satellite System (GNSS) Reference System, 11 83 00

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. Require a minimum of 3 rovers instead of 2. Additional rovers may be required based on the annual interment rate.
2. Rovers need to be RTK for 1-2cm accuracy, have RTX capability but not subscribed (as a backup if base station is down), and used with 3G/4G handheld devices running TerraFlex as the collection software.
3. One year subscription to TerraFlex for each rover instead of ArcGIS for Windows Mobile.
4. Each data logger (AKA. "Handheld device") must have 24 months of 3G/4G service provided.
5. Changed training from 2x two day sessions to 2x one day sessions.

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**DATE OF THIS VERSION:**

May 1, 2016

**TITLE OF DOCUMENT:**

GNSS Reference System, 11 83 00

**DATE OF VERSION BEING SUPERSEDED (old):**

N/A – New section

**DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):**

N/A – New section

**SUMMARY OF CHANGES IN THIS VERSION:**

1. New section for Global Navigation Satellite System Reference System.