



Amendment 7 to the Western Regional Networking Agreement - July 1, 2015 ("Effective Date")

This AMENDMENT 7 ("AMENDMENT") is incorporated into the Western Regional Networking (WRN) Agreement ("AGREEMENT") entered into as of December 1, 2009 and subsequently amended as described below by, and on behalf of, the Parties to this ADDENDUM, including CENIC, a California 501(c)3 corporation, ("CENIC") with headquarters in La Mirada, California; the University of Hawaii, an institution of higher education with a main office in Honolulu, Hawaii ("UH"), the Front Range GigaPoP ("FRGP"), a project of the University Corporation for Atmospheric Research ("UCAR") located in Boulder, Colorado; the Pacific Northwest GigaPoP, a Washington 501(c)3 corporation ("PNWGP") with headquarters in Seattle, Washington; and the Regents of the University of New Mexico ("UNM"), an institution of higher education with main campus in Albuquerque, New Mexico; each individually a "Party" and collectively the "Parties" to this ADDENDUM.

Whereas, the Parties entered into the Western Regional Networking Agreement on December 1, 2009; and

Whereas, the Parties wish to amend the AGREEMENT to agree to provide network access between National Oceanic and Atmospheric Administrative (NOAA) facilities within the Western Regional Network (WRN) Parties geographic area to the NOAA N-Wave facility;

Henceforth, therefore, the Parties agree to the following:

1. By signing this AMENDMENT, all existing Parties agree to serve NOAA facilities within the WRN Parties geographic area as requested by FRGP and upon receiving approval from FRGP for the costs associated with that service;

2. Service to a NOAA facility would typically involve transport to a specified NOAA N-Wave facility via the WRN;
3. The FRGP has an agreement with NOAA and the WRN has an agreement with the WRN parties that allows the exchange of funds;
4. The WRN Party will invoice the FRGP for NOAA WRN-related facility expenses incurred by the WRN Party;
5. The FRGP will invoice NOAA for the WRN expenses;
6. The FRGP will pay the WRN Party invoice for NOAA WRN-related facility expenses.

IN WITNESS WHEREOF, THE PARTIES HERETO HAVE EXECUTED THIS AMENDMENT

For CENIC:

<i>Louis Fox</i>	6.6.2015
Signed	Date

For the UCAR on behalf of FRGP:

<i>Ann Gumbiner</i>	7/13/2015
Signed	Date

~~For the FRGP:~~ For UNM:

<i>Andrew</i>	7/6/2015
Signed	Date

~~For UNM:~~

For PNWGP

Clay Philipson

07 / 06 / 2015

Signed

Date

For UH:

[Signature]

Signed

7/13/2015

Date