

NWN Recurring Support
FY 2005 Proposal to the NOAA HPCC Program
September 10, 2004

| [Title Page](#) | [Proposed Project](#) | [Budget Page](#) |

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Proposal Theme: **Recurring (REC)**

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NWN Recurring Support

Proposal for FY 2005 HPCC Funding

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Executive Summary:

The objective of this proposal is to provide some regional coordination and operational support for the NGI projects funded by the HPCC program. It offers activities that assist with the integration of this network infrastructure into the NWN NOC operational environment and is intended to provide access to a wider range of NOAA data and information. It continues the effort to implement a robust, reliable and adaptable network and server infrastructure for NOAA in the west region. These computing and communications efforts will enable researchers to leverage future HPCC networking projects. These accomplishments will compliment the products being developed and supported under other projects and programs. The high performance backbone and management servers implemented by the NOAA West Network team are located at the NOAA Western Regional Center (WRC) in Seattle, Washington

The activities proposed enable the existing campus network, metropolitan network and server systems to better support the critical services provided to NOAA, NOAA West Network (NWN) member organizations, and to NOAA's customers. It will also enable the development of additional prototype data access projects and provide a test bed for innovative, cost cutting ways to share data among the various NOAA line organization units here and across the country. Emphasis this fiscal year will be placed on maintaining NGI connectivity for use by HPCC projects and researchers. Basic operational support will be provided for backbone connectivity, next generation Internet access and network management services. Network design and engineering efforts will seek to implement the new Juniper border routers procured as part of a previous HPCC project, provide redundant core router capabilities and provide access to the next generation National LambdaRail (NLR) network.

The existing NOC infrastructure will continue to provide user services for NOAA LAN managers located along the west coast of the United States. This service will look to supplement that provided through the NOAA CIO office for the integration of network services. An integrated effort will ensure that NWN members continue to receive high-speed network access in support of the NOAA mission.

Performance Measures:

Success will be achieved through the continued integration of the new NGI equipment and services into the existing operational infrastructure.

