

Appendix C – NNSA Core Capabilities

The relationship between infrastructure conditions and core capabilities cannot be understood without correlating assets with core capabilities. NA-161 has made an initial rough association of all assets with their primary capabilities and provide it to sites as a starting point. Sites are asked to review and correct the initial primary capability, add the secondary/tertiary capabilities where appropriate, and submit updates as facility uses change. The underlying principle is that each asset must be associated with the capabilities most degraded by loss of the asset – either immediate or over an extended time. Where assets support multiple capabilities a secondary and tertiary capability can be assigned but are not required except for Enabling Infrastructure. General guidelines for associating capabilities with assets include the following:

1. When a project or asset supports more than one core capability the primary capability is the one most degraded by loss of the asset or by not completing the project.
2. An intuitive association of assets and projects with capabilities is preferable to lengthy deliberation and analysis to determine the “best” association. Associate all assets (regardless of Mission Dependency) with up to three core capabilities their loss would degrade. Even if the association is through several degrees of freedom, if the loss could ripple back into a degradation of a core capability associate the asset with that capability.
3. When assigning the primary capability, associate assets that enable a core capability with the capability they primarily enable. Assign C10, Enabling Infrastructure, as a secondary or tertiary capability if the asset is Enabling Infrastructure.
4. Associating assets with capabilities may at some sites generate a UCNI document. Send UCNI files separately to NA-161. UCNI information will not be posted on the IDAC and will be released only to analysts and other users with a “need-to-know”.

To align core capabilities across all planning documents within NNSA the following table shall be used to identify core capabilities with assets and for use in the IDS. This table reflects Mission Capabilities from the SSMP and the CBF I WBS with the addition of C13, Federal Management and Oversight, for assets such as the Albuquerque Complex and site offices and C8, Transportation.

IDAC Data Guidance

Core Capability Code	Function	Examples
C1	Design, Certification, Testing, Experiments, Surveillance and ST&E base	Life extension design support certifications; Surveillance and assessments of warheads; Computational Science; Testing and experiments to support stockpile certification & surveillance.
C2	Plutonium	Plutonium R&D, manufacturing, storage, and radioactive waste disposition.
C3	Uranium	HEU R&D, manufacturing, storage, and radioactive waste disposition.
C4	Tritium	Tritium R&D, manufacturing, and storage.
C5	High Explosives	High Explosives R&D, production, storage, and disposition.
C6	Non-nuclear	Component R&D, and component production.
C7	Weapons Assembly/Disassembly	Assembly cells and bays, weapon surveillance, NDE operations.
C8	Transportation	Safe and secure transport of nuclear weapons, components, and materials to meet projected DOE, DoD, and other requirements
C9	Special Nuclear Material Accountability, Storage, Protection, Handling and Disposition	Storage, security protection, and handling of nuclear material and weapon components.
C10	Enabling Infrastructure	Utility services including HVAC, electrical, fire main, etc. (Note: Projects proposed for CBFI funding consideration should be primarily associated with under the Core Capability C1 through C9, C11 or C12 that would be most degraded if the asset no longer functions and as C10 as a secondary or tertiary capability as needed.)
C11	Counterterrorism & Counter-Proliferation	Expertise regarding Improvised Nuclear Devices, proliferant foreign and non-U.S. stockpile weapon design and assessment activities as they relate to nuclear terrorism, counter proliferation and national render safe activities.
C12	Support of Other Mission / Program Capability	Support of other mission or program capability. (Including work for others.)
C13	Federal Management and Oversight	Operations of Headquarters and site offices. Does not include operations of the Office of Secure Transportation.