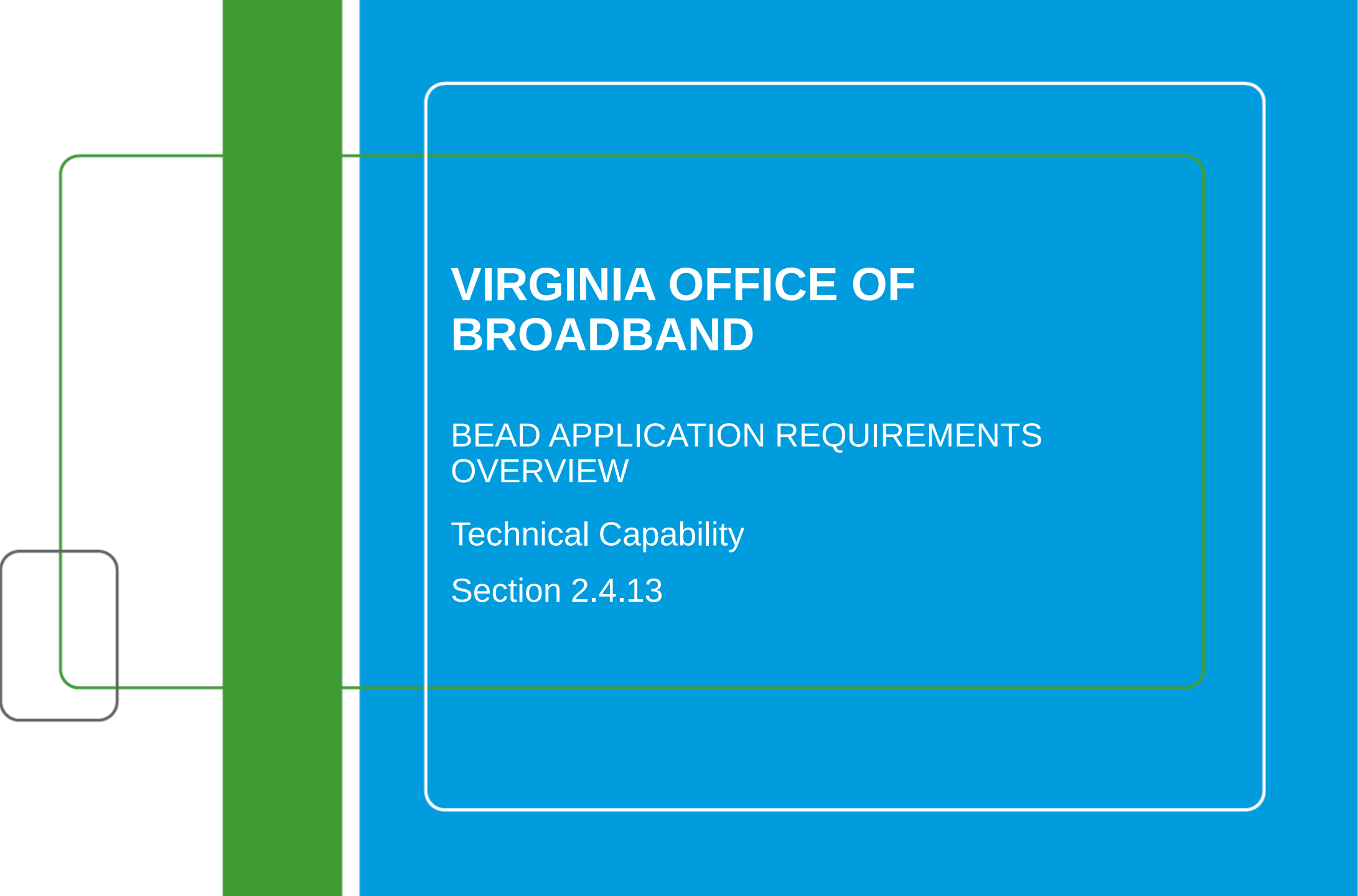




VIRGINIA OFFICE OF BROADBAND

BEAD APPLICATION REQUIREMENTS OVERVIEW

Technical Capability

Section 2.4.13

Section 2.4.13 Technical Capability Summary

1 DESCRIPTION: WHAT?

- Section 2.4.13 relates to the technical capability of applicants

2 RATIONALE: WHY?

- To ensure applicants have the technical capabilities and experience to successfully complete their projects

3 ROLES AND RESPONSIBILITIES: WHO?

Applicant: Demonstrate and certify technical capability
DHCD Office of Broadband: Evaluate applications

4 DESCRIPTION: HOW?

- Submit certification in application
- Submit network design, diagram, costs, timeline, milestones, and capital investment schedule (all engineer certified)

5 QUESTIONS?

Contact: broadband@dhcd.virginia.gov
Additional Resources: <https://www.dhcd.virginia.gov/bead>

6 ROADMAP: WHEN?

Milestone	Phase
Applicant to include all required information demonstrating technical capability in their application	Application
Applicant to certify understanding of and compliance with technical capability requirements	Application
Awardee to obtain certification of technical plans by a professional engineer and provide to DHCD for review and approval prior to contract issuance	Pre-Contract

Section 2.4.13 Technical Capability Breakdown (continued)

1. Technical Capability

The Office of Broadband is committed to ensuring that applicants seeking to deploy network facilities are thoroughly vetted and meet the minimum qualifications for technical capabilities as outlined in the BEAD NOFO.



The Office of Broadband will require all applicants to submit:

- Network design and Network diagram
- Project costs
- Build-out timeline and milestones for project implementation identifying specific tasks, staff, contractor(s) responsible, collection of data, etc., and estimated start and completion dates.
- Capital investment schedule evidencing complete build-out and the initiation of service within four years of the date on which the entity is under contract. This 4-year build timeline may be less based on the timeline committed to in the application.

All of which must be certified by a professional engineer, stating that the proposed network can deliver broadband service that meets the requisite performance requirements to all locations served by the Project.



- Certify that the applicant is technically qualified to not only complete construction of the proposed network but also operate the network and that they are capable of carrying out the funded activities in a competent manner, including that it will use an appropriately skilled and credentialed workforce (see Section IV.C.1.e of the BEAD NOFO).
- Certify that the applicant has included all necessary information required by the Office of Broadband and/or NTIA

*requirements are subject to change as the NTIA continues to issue further guidance.

Section 2.4.13 Technical Capability Breakdown

1. Technical Capability

The Office of Broadband is committed to ensuring that applicants seeking to deploy network facilities are thoroughly vetted and meet the minimum qualifications for technical capabilities as outlined in the BEAD NOFO.

- The applicant's efforts to mitigate supply chain constraints, including labor shortages and order-to-delivery delays on telecommunications materials required to construct broadband networks.
- The applicant's efforts to mitigate costs and delays that may be associated with make-ready and other permitting requirements anticipated for network deployment
- Describe the current state of project development, including but not limited to planning, preliminary engineering, identifying easements/permits, status of MOU or MOA, and final design
- Applicants are encouraged to extensively discuss, where applicable, make-ready/pole attachments, easements relating to railroad crossings, state and federally owned lands and parks, partnerships with the Virginia Department of Transportation Department of General Services, and mobile home parks.
- Provide a description of the network system design used to deliver broadband service from the network's primary internet point(s) of presence to end users, including the network components.
- Provide information on how capacity for scalability, or expansion, of how the network can adapt to future needs.
- If using a technology with shared bandwidth, describe how the equipment will handle capacity during peak intervals. For wireless projects, provide a propagation map for the proposed project area with a clearly defined legend for scale of map.
- Describe the internet service offerings, including download and upload speeds, to be provided after completion of the proposed project. Detail whether that speed is based on dedicated or shared bandwidth and detail the technology that will be used. Please note, DHCD reserves the right to request verified speed tests distributed throughout a service area at times of peak network usage from potential subgrantee's existing network to verify a co-applicant's capability to provide broadband service at speeds at or above 100/20 Mbps.
- List the tiered price structure for all speed offerings in the proposed project area, including all speed offerings.
- Detail the internet service provider's digital opportunity efforts to ensure low to moderate income households in the proposed project area will have affordable access to speeds at or above 100/20 Mbps



Section 2.4.13 Technical Capability Actions

The applicant is expected to complete the following task(s) to satisfy the requirements for Section 2.4.13 which are laid out on Page 74 of the [BEAD NOFO](#) and adopted by the Office of Broadband on Page 24 – 25 of the Initial Proposal Volume 2.

REQUIREMENTS

The Office of Broadband posted the requirement specifics in IPv2

Fall 2023



APPLICATION

Applicant to include all documentation, narratives, and certifications in the application

During
Application



PRE-CONTRACT

In the Post-Award but Pre-Contract phase, awardees will be required to provide additional information

2024



SUBGRANTEE MONITORING

The Office of Broadband will monitor subgrantees to ensure compliance with ongoing requirements for this section

Ongoing

