

SAFETY Act Technical Evaluation:

The Criteria and Review Process



Homeland
Security

Technical Criteria

- (1) Prior United States Government use or demonstrated substantial utility and effectiveness.
- (2) Availability of the technology for immediate deployment in public and private settings.
- (5) Magnitude of risk exposure to the public if such technology is not deployed.
- (6) Evaluation of scientific studies that can be feasibly conducted in order to assess the capability of the technology to substantially reduce risks of harm.
- (7) Anti-terrorism technology that would be effective in facilitating the defense against acts of terrorism including technologies that prevent, defeat or respond to such acts.

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- (A) Perform as intended.
 - (B) Conforms to Seller's specifications.
 - (C) Safe for use as intended.

Designation
"includes but not limited to"

Certification
"comprehensive review"



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Designation Criterion 1

- A history of prior government use that illustrates utility and efficacy or other demonstration of ATT's utility and efficacy
- Here, there is no real difference for products vs. services. We look for:
 - US Government use (successful deployments)
 - Use by other groups (public or private) that can document the technology's utility and efficacy
 - Pending procurements can be considered if procuring agency or procurement process indicates utility and efficacy



Designation Criterion 2

- Availability for immediate deployment
- Products
 - Past R&D phase, near an operational state
 - Reasonable market demand can be achieved
 - Efficacy, utility are proven and reproducible
- Services
 - Processes are in place and well-documented
 - Success is proven and reproducible (or shown to be reasonably certain)
 - Staffing is appropriate or easily achieved



Designation Criterion 5

- Risk to the public exists that your type of technology can counter
- For evaluation, we presume your specific technology works well
- Here too, there is no real difference for products vs. services. We look for:
 - A likely reduction in public risk provided by your technology
 - What your technology does that makes us safer



Designation Criterion 6

- Assessment of the technology's capability to reduce risk of harm
- Products
 - Can be thought of as “developmental testing”
 - ✓ Lab results--controlled studies
 - ✓ Prototype trials
 - ✓ Functional capabilities of the technology
- Services
 - Incorporation of standards and industry best practices into Standard Operating Procedures
 - Certifications
 - Quality Assurance process in place
 - Pilot program results
 - Training procedures incorporate lessons learned



Designation Criterion 7

- Efficacy against acts of terrorism
- Products
 - “Operational testing”
 - ✓ Evidence of performance metrics, including:
 - Availability
 - Reliability
 - Probability of detection
 - False Positive/Negative rates
- Services
 - Past performance (in equivalent or substantially equivalent deployment)
 - Red-teaming
 - Customer satisfaction

Certification Criterion A

- Perform as intended
 - Substantiated, unambiguous evidence that the technology (product or service) will, under reasonable circumstances and with reasonable confidence, perform as intended.
 - ✓ Builds on Criterion 7 data
 - ✓ Plans for long-term self-evaluation
 - ✓ Representative deployments in various environments
 - ✓ Testimonials from past users



Certification Criterion B

- **Conforms to Seller's Specifications**
- Applicant must provide specifications for the technology and indicate their compliance to them
- Products:
 - Design specs
 - Success metrics
 - QA/QC history
- Services
 - Personnel qualifications
 - SOPs
 - Customer satisfaction history

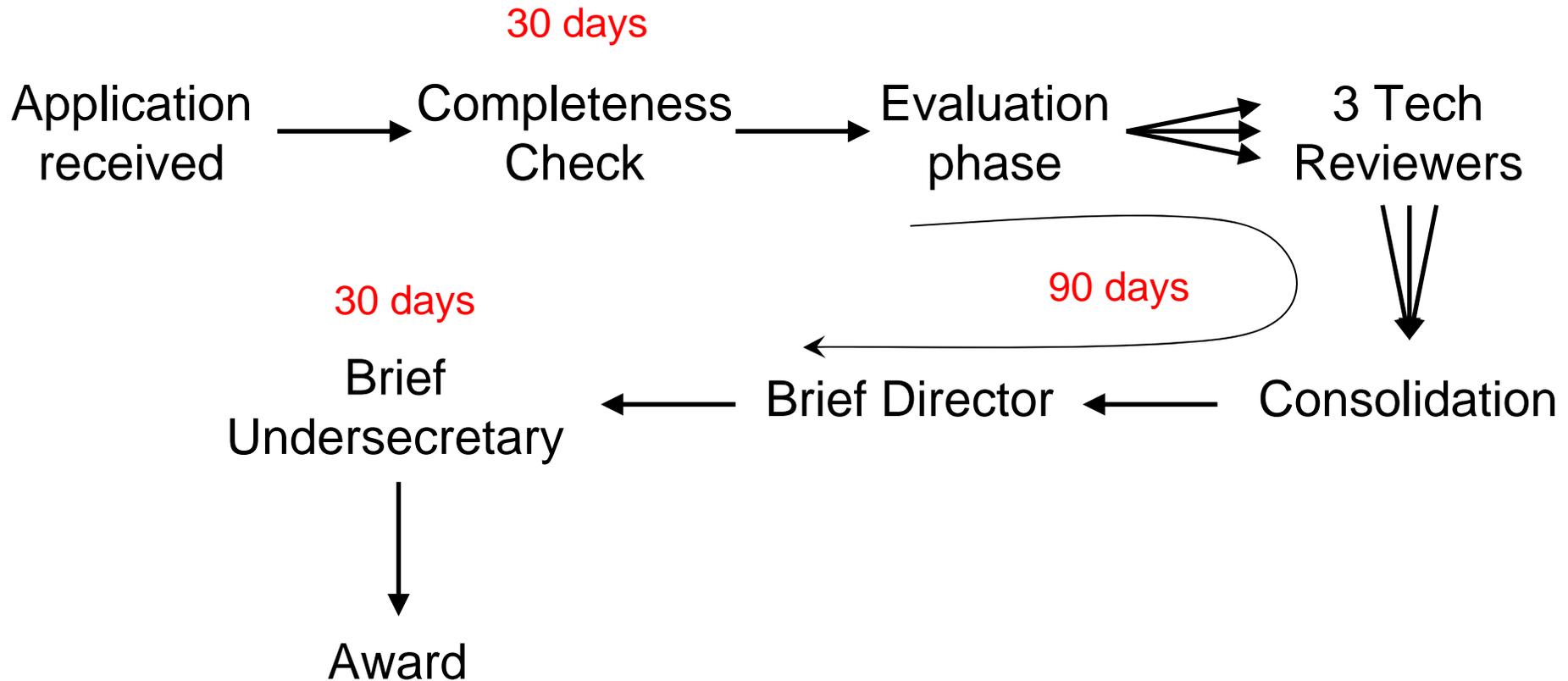


Certification Criterion C

- Safe for use
- Is the technology (product or service) safe for users or others exposed to its operation?
- Applicant required to submit a Safety and Hazard analysis.

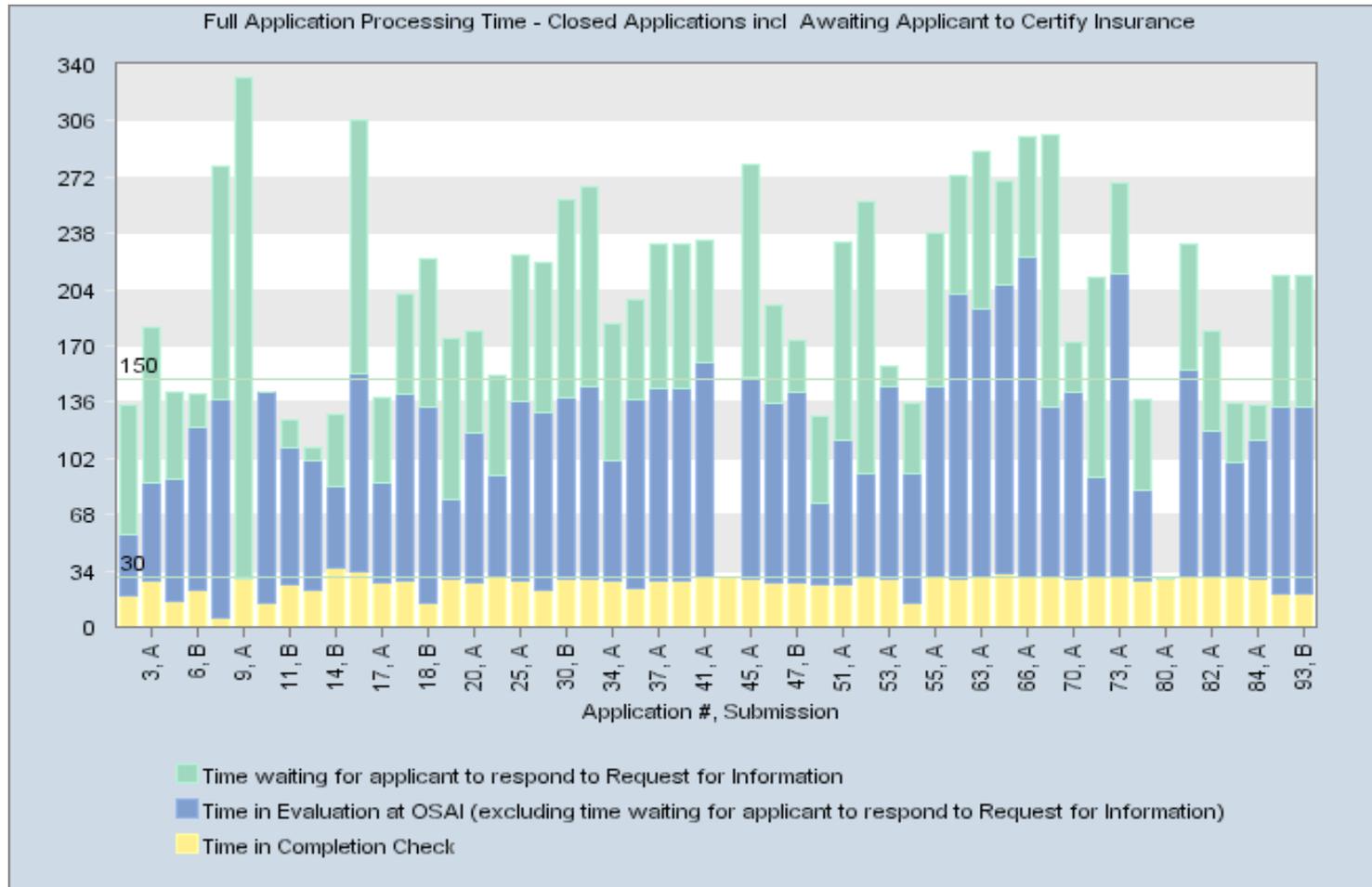


Evaluation Process



Request for Information (RFI) can occur at anytime to clarify outstanding questions or uncertainties

Timeliness on Closed Applications



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Conclusions

- 5 Technical Criteria for Designation
- 3 Technical Criteria for Certification
- Each maps to characteristics of your technology
- Consistent review process in place
- Responses on target

