**Summary of changes for WGQ Recommendations for Annual Plan Items 6.a and 6.b**

This Recommendation implements changes made in response to Sandia Labs’ review of the NAESB WGQ standards. There were 13 “Issues” raised by Sandia’s review – 11 issues from their Business Operations and Standards Report (BOPS) and 2 from their Addendum Report (ADD). The below table groups these Issues topically, and summarizes NAESB’s actions.

For further definition, the Recommendation contains a table with specifics about each Sandia Issue and the NAESB changes that were made in response. The changes include modifications to both NAESB standards and to the IET and QEDM manuals. Since the changes are numerous, they are individually identified by a “D” number. A complete redline listing of all the “D” changes is contained in the “D” changes document.

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| **Sandia Issue Topic Summary** | **Sandia Issue Numbers** | **NAESB Response** |
| Enhance system security by timely adoption of technology changes and trading partner notifications. | 1-BOPS, 2-BOPS, 4-BOPS, 5-BOPS, 7-BOPS, 10-ADD | NAESB has modified multiple standards to further define version adoption timelines and notification periods with trading partners. |
| Update/change the methods of encryption required for secure Internet communications. | 3-BOPS, 9-BOPS, 10-BOPS, 11-BOPS, 12-BOPS | NAESB has updated and reformatted the standards to reflect the most current encryption technologies, replacing SLL with TLS (for web sites) and updated PKI encryption (for encrypting EDI files). |
| The implementation of two-factor authentication on an individual user basis for all web sites. | 4-ADD | NAESB has updated standards to reflect that web sites should utilize individual user ids. Implementation of two-factor authentication was not standardized. |
| Specific consideration of cyber-attack methods (REFNUM, replay and amplification) that could affect NAESB Internet communications | 13-BOPS | Further work is needed; not included in this Recommendation. |