Appendix A
All Changes In Latest Version

This appendix describes (for *Normal, Advanced, and Factory* Users) all the *major functional improvements* added to NUSS for its latest customer release (Version 2.3.0) and for any of several Beta versions that immediately preceded that release. The most important improvements and bug fixes are summarized in this appendix – though similarly named (**Appendix A**) addenda contain special material unique to each other *user type* (*Advanced*, and *Factory*). The reader of each of these sections is assumed to already be familiar with NUSS and its terminology for that user type.

This appendix lists changes to NUSS since the previous major "customer" release (version 2.0.0) in January 2007.

Improvements Visible to Normal, Advanced, and Factory Users:

1.   Full support for the Model 9046 and Model 9146 *temperature* scanners is now provided. This includes the following program changes:
   a.   Because unique features of the individual channels of these modules are configured only by modifying *special coefficients*, the *'Calibrate | View/Edit Coefficients'* form allows a *Normal* user to edit (and re-write) four coefficients only for these modules. These coefficients are:
      #0   (*Zero Cal Adjust*),
      #1   (Span *Cal Adjust*),
      #81   (*Sensor Type*), and
      #82   (*EU Filter Stage*).
   b.   The **Run** form was modified to support the special measurements and units displayed for each of the 16 channels.
   c.   The **Noise** test was modified to support 9x46 modules.
   d.   The *Zero* (only) phase of the **Calibration Adjust** form supports automatic adjustment of the Zero Cal Adjust coefficient of each channel of these modules via the normal LRN assignment methods. Thus, the **LRN Editor** (a.k.a. *'Configure | Calibrators'* form) was modified to accept the unique *temperature* and *resistance* measuring ranges possible for each LRN.
2.   Add a new **Memory** test to the context menu of those modules that have a 32K EEPROM on the MC327 board (Model 9146 or 9116 scanners), or on the older PC206 board (Model 9046, or 902x scanners). For 902x scanners, also test the 4K EEPROM in any external 9400 transducers connected to a specified channel #. The report shows go/no-go results.
3.   Changed the maximum number of connected scanners from 64 to 256.

4.   Add 9x16 supply and purge pressure port leak test.
5.   Add pressure range codes for 94xx transducers ranged greater than 750 psi.