



NSTX-U

NSTXU TF Inductance Calculation

NSTXU-CALC-132-13

Rev 0

April 9, 2012

Prepared By:

Charles Neumeyer, PPPL Electrical Engineering

Reviewed By:

Ronald Hatcher, PPPL Electrical Engineering

PPPL Calculation Form

Calculation # **NSTXU-CALC-132-13-00** Revision # **00** WP #**1511**

Purpose of Calculation:

This calculation provides the inductance of the TF coils of the NSTX upgrade.

References:

The method used is the same as was used for the original NSTX (NSTX-CALC-13-2).

Assumptions:

See reference above (which includes TF outer leg dimensions). TF inner leg dimensions for upgrade based on design point at:

http://www.pppl.gov/~neumeyer/NSTX_CSU/TF_Coil.htm

Calculation:

See XL spreadsheet "NSTX_CSU_TF_Inductance_Calc_110621_1.xls".

Cognizant Engineer's printed name, signature, and date:

I have reviewed this calculation and, to my professional satisfaction, it is properly performed and correct.

Checker's printed name, signature, and date:
