Scientific Notebook No. 612-16E

Total-system Performance Assessment (TPA) Code Development and Analysis

by

Juan Portillo

Note added during Manager Review: Initial Entry was missing from this notebook. It appears this notebook was used simply as a Log of work activities by Juan Portillo, A student intern during the Summer of 2004. No other staff have made entries To this notebook. This Note should serve the purpose of the Initial Entry.

James Winterle 3/14/07

7/23/04
1.) TPA surveys given to Cathy Rangel.
Hill = 13 + 1 attachment
Cragnolino = 13
Jain = 2
Farrell = 1
Janetzke = 7
Total = 36 + 1 attachment

7/28/04
Table of new parameters made for SCR 480, 481, 478, 484, 483, made in xls spreedsheets. Need to send out via email.
Need to send out questionnaires for all new parameters except for 478(Osvaldo), 484 (Pickett, and Painter).

Made Separate files for Additions and Deletions to TPA parameter list.
AppendixA_Additions.xls, AppendixA_Deletions.xls.
Deleted parameters in AppendixA_Deletions.xls from the main AppendixA.xls

7/30/04 Organized and Documented which parameters were eliminated by SCR's 484, 478 by adding symbols to the Deleted Params Spreadsheet in the Status column. Identified which parameters were used/not used by the Reversible.inp file. (identified in TPA 5.0r by the *constant or *lognormal distribution).

8/2/2004
1. update Questionnaire status (c,rv,rg, etc).
2. email to D.Gute on SCR 480/481 parameter changes table and new parameter questionnaires.

8/3/04
1. update Questionnaire status (c,rv,rg, etc).
2. received typed up questionnaires from C.Rangel. File '

8/4/04
1. update Questionnaire status (c,rv,rg, etc). in the column labled 'Q' in Appendix A.
2. update to Appendix A index. File 'index3_UserGuide.xls'. Include more symbols for the 'Status' column of Appendix A.

8/6/04
1. Updated Index to show the number of parameters under each symbol. (i.e. # of parameters deleted, proposed to be deleted etc).
2. Spoke w/ S.Mohanty to provide printed version of Appendix A in order of Status, then

responder name.

8/9/04
1. Printed Appendix A sorted by Status (Satisfactory etc) and secondly by repsonder name.
1.a. Created rows to identify start of Satisfactory (etc) list of parameters.
2. Made updates to AppendixA_Additions from SCR's 480/481 from S.Mohanty's revisions.
3. Updated Index with Symbol A1, and B.Goodwin's table of explanations for Review Status.
5. Spoke w/ B.Goodwin to work on single version of Appendix A. Not created so far.

8/16/04
1.) TPA data questionniares sent to C.Rangel.
Benke 3
Ofeugbu 7
Gute 11
1.a.) received data quesitionaires (given to C.Rangel on 7/23/04) as individual WordPerfect files.

2. submitted AppendixA_v4rev1 to B.Goodwin.

8/17/04
1.) submitted AppendixA_V5rev1 to B.Goodwin.
2.) worked on outline for Presentation 'Obtaining Technical Basis for TPA parameters'.
3.) sent file 'ProbabilityDistributionFunctions_Ruth-Cathy.wpd' to C.Rangel for typing questionniares sent 8/16/04.

8/18/04 through 8/26/04
Updated B.Goodwin's Appendix A files. Finished AppendixA_V7 Thurs, 8/26/04.

8/20/04
Gute, 4 params (MECHFAIL) to C.Rangel. Received 8/23/04.

8/23/04
Presentation: Obainting Technical Basis for TPA

8/27/04
Ahn = 2
Winterle = 11

9/10/04
References.xls : list of all short-hand references found in AppendixA_v9.xls.

9/17/04
Updated reference list to show Full reference by searching in my version of Appendix A.
If not found, look in:
Old User's Guide Reference Section of Appendix A.
RARI reports and Library References.
Last Resort: Consultation with CNWRA experts.

9/20/04
References for Appendix A include:
Appendix A (my version July 19 '04).
Appendix A; References; User's Guide 4.0
Working RARI from 06-25-04
Searches on 'ELF' CNWRA electronic library database
Yucca Moutian Project Web-site: http://www.ymp.gov/documents/ser_b/refs.htm#n

Batch 7: list of WPerfect questionnaires for Cathy to reSave by parameter name.

9/22/04
worked on References. 50 incomplete references remain.
worked on creating tpa.inp file from Appendix A.

9/27/04

*** Latest version of Appendix A is: AppendixA_v10rev1.xls - contains AppendixA and AppendixB (datafiles) info. (AppendixA_tpa501.wpd - WordPerfect version). ***

D:/AppendixA/Excel_backups/ ...old versions of Appendix A
D:/AppendixA/oldAppendi/ ... version of Appendix A(TPA 5.0r) that was starting point for updating Appendix A for TPA version 5.0.1.
D:/AppendixA/Param_Changes_SCR's/ ... list of added and list of deleted parameters when comparing Appendix A(TPA 5.0r vs TPA 4.1j).
D:/AppendixA/References/ ...AppendixA references.
D:/AppendixA/Reversibles/ ... list of reverssibles found in tpa.inp (TPA 5.0r)
D:/AppendixA/WordPerfect_Originals/ ... original appendixa.wpd files(TPA 5.0r and TPA 4.1j)
D:/AppendixA/AppendixA.xls ...latest Excel spreedsheet with detailed data from TPA data questionnaires. Henceforth(after date saved as) Appendix A will sumarize information provided by Questionnaires.
D:/AppendixA/AppendixA_Additions.xls ...list of parameters added since TPA 5.0r. Mostly parameters introduced to TPA by SCR's.
D:/AppendixA/Index.xls ...Index (explanation) of columns in D:/AppendixA.xls.

D:/AppendixA/PARAMETER_ADD_DEL_MOD.xls ...Excel spreedsheet for SCR template.
D:/AppendixA/AppendixA_Bruce ...versions that are the joint effort between B.Goodwin and J.Portillo. Final version is AppendixA_v10rev1 as of 9/27/04 and is used to generate the AppendixA_tpa501.wpd (WordPerfect version). Contains status informtion. Also contains further action to be performed on parameters.

D:/Attachments/ ...all digital attachments supplied with their respect questionnaires.

D:/Electronic_Journal/ ...biweekly reports, presentation 'ObtainingTechnicalBasisForTPA', important contacts, ScientiicNotebook for Juan Portillo 2004.

D:/Fortran77/ ..fortran program to read digital questionnaires, search for strings within document.

D:/jportillo/ ...outlook express data

D:/QuetionnaireReiewFiles/ ... detailed review of questionnaires by B. Goodwin, and any follow up responses.

D:/Questionnaires/ ...Digital copies of Questionniares

D:/RARI_report/ ....report submitted for RARI on the task of TPA data questionnaires, and updating Appendix A, and obtaining technical basis for TPA input parameters.

D:/SensitivityAnalysisReport/ ...copies used for references and learning about TPA parameters.

D:/Status/ ... lists of parameters needing questionnaire survey subissions.

D:/tpa50r/ ... used as reference, copy of tpa50r directory on spock

D:/tpa50s/ ...used as reference, cpy of tpa50s dir on spock.

D:/tpa_params/ ...comparison list of parameters in TPA50r vs TPA41j and the matlab code (.m file) used to generate the lists.

D:/TPA_UserGuide4v0/ ... cpy of TPA user guide 4.0, used as reference

GEOSCIENCES AND ENGINEERING DIVISION

SCIENTIFIC NOTEBOOK REVIEW CHECKLIST RECORD

Scientific Notebook No.: 612-16E Project Numbers: 06002.01.354

Accomplished

	1. Initial entries per QAP-001	See note on front cover
	2. Dating of entries	
	3. Corrections (crossed out, one line through w/initials/date)	
JRW	4. No White out used	
JRW	5. Page number visible on copy or original notebook	
JRW	6. In process entries per QAP-001	
JRW	7. Figure information present	N/A
JRW	8. Text readable	
JRW	9. Copyrighted material is identified	N/A
JRW	10. Permanent ink or type only	
JRW	11. Signing of entries (not required on each page)	NOT signed but name indicated on header of each page.
JRW	12. Electronic media in the scientific notebook properly labeled	N/A
JRW	13. NRC Supplementary Scientific Notebook Questions are addressed.	see pg 7.

Any discrepancies must be resolved before notebook closeout.

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I have reviewed this scientific notebook and find it in agreement with QAP-001.

JRW

Manager's Signature

3/14/07

Date

Attach this completed form to the last page of the notebook.

Form QAP-01 (10/2006)