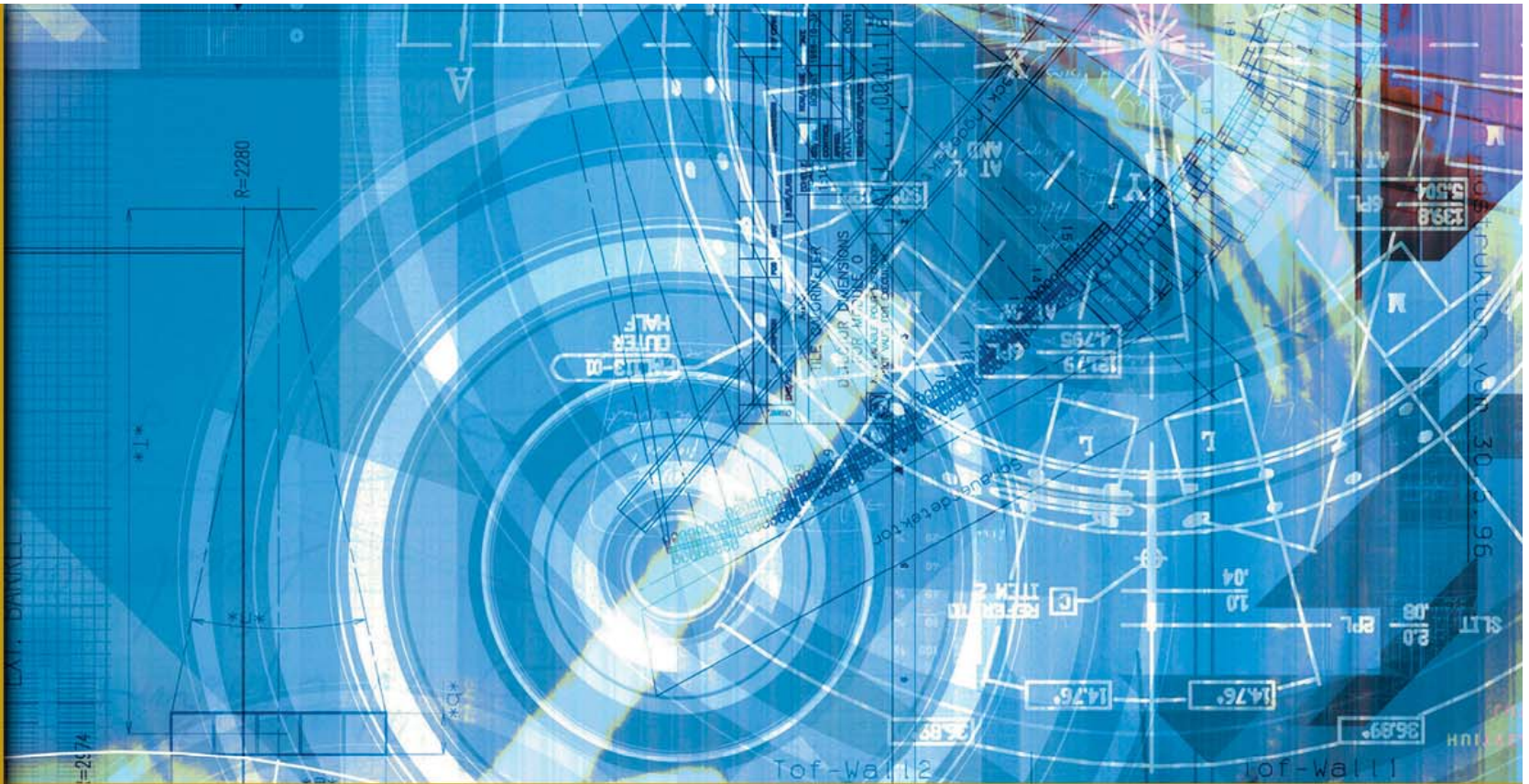




CRITICAL THINKING.
SOLUTIONS DELIVERED.



Getting It Together Combining ACE Estimates January 2009

presented by:

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- **Row Copy**
- **Save/Insert Section, a.k.a. Section Templates**
- **ACE-to-ACE Plug-In**
- **Comparison of Methods**
- **Using Multiple Methods**
- **Summary**

- **Procedure**
 - Highlight continuous block of rows in source session
 - Copy via menu, power keys, or icons
 - Cursor anywhere in the row where you want to insert copied rows, and paste (will act as insert)
 - Rows will be inserted above the cursor
- **Imports everything on the row; e.g.,**
 - Equation
 - Unique ID
 - Yearly inputs
 - DEC and Category Column data
 - RI\$K parameters
 - Narratives (with keywords adjusted to appropriate sequence for receiving session)

- **DEC resolution**
 - **DEC in source session, but not in receiving session, triggers Orphan DEC Dialog**
 - **Insert**
 - **Throw Away**
 - **Cancel = Throw Away**
 - **Put the data into a receiving session DEC ***
 - **If receiving session has a DEC with same name, data will go there***
 - **New DEC's will be added to the workscreen you are on, to the left of where your cursor was when you pasted**
 - **ESCAPE gives you another chance to decide**
 - **Category Column Data Transferred**
 - **Columns have default names, not source session column names**
- *User may need to adjust the DEC type**

- **Cautions**

- **Situations that can cause fatal errors include:**

- **A Unique ID (UID) in the source session is identical to one in the receiving session**
 - **A UID is used in an equation in the copied block, but the row that defined it is not in the copied block**
 - **Take advantage of ACE error trapping to fix**

- **If the source session has input data in years outside those of the receiving session, those data are not imported**

- **No automatic warning if the source data had a fatal error**

Row Copy WBS Workscreens

Receiving session

ACE 7.1a - [1 Step 1.aceit - WBS/CES (BY2009\$K)]

	WBS/CES Description	WBS Indent Level	Approp	Category 1	Category 2	Category 3	Category 4	Category 5	Category 6
1	*Configuration Functions								
2	* Base Year of Calculation								
3	* Units of Calculation								
4	* System Inflation Table for Calculation								
5	* Custom Inflation Table for Calculation								
6	* ACE Session Name								
7	* ACE Session Path								
8	* Time of Calculation								
9	* Date of Calculation								
10	* Time ACE Session Last Saved								
11	* Date ACE Session Last Saved								
12	* Risk Iterations								
13									
14	*My Program Estimate								
15									
16									
17									
18									
19									
19	*INPUT VARIABLES								

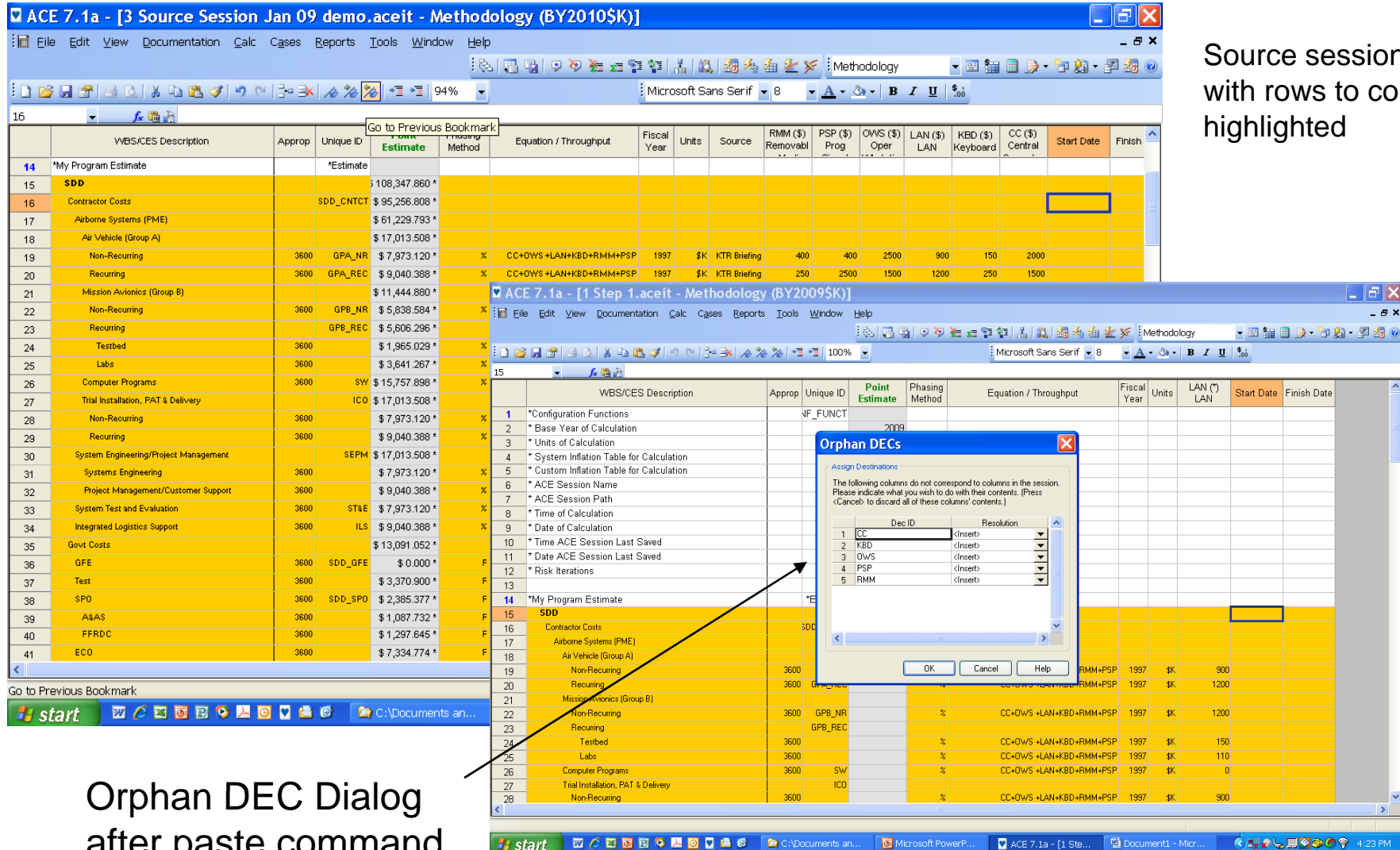
Source session

ACE 7.1a - [3 Source Session Jan 09 demo.aceit - WBS/CES (BY2010\$K)]

	WBS/CES	WBS Indent Level	Approp	Source	Category 2	Category 3	Category 4	Category 5	Category 6	Category 7
14	*My Program Estimate									
15	SDD	1								
16	Contractor Costs	2								
17	Airborne Systems (PME)	3								
18	Air Vehicle (Group A)	4								
19	Non-Recurring	5	3600	KTR Briefing						
20	Recurring	5	3600	KTR Briefing						
21	Mission Avionics (Group B)	4								
22	Non-Recurring	5	3600	KTR Briefing						
23	Recurring	5								
24	Testbed	6	3600	KTR Briefing						
25	Labs	6	3600	KTR Briefing						
26	Computer Programs	4	3600	KTR Briefing						
27	Trial Installation, PAT & Delivery	4								
28	Non-Recurring	5	3600	KTR Briefing						
29	Recurring	5	3600	KTR Briefing						
30	System Engineering/Project Management	3								
31	Systems Engineering	4	3600	KTR Briefing						
32	Project Management/Customer Support	4	3600	KTR Briefing						

Row Copy Methodology Workscreens

Source session with rows to copy highlighted



The screenshot shows two overlapping Excel windows. The top window, titled "ACE 7.1a - [3 Source Session Jan 09 demo.aceit - Methodology (BY2010\$K)]", has rows 14 through 41 highlighted in yellow. The bottom window, titled "ACE 7.1a - [1 Step 1.aceit - Methodology (BY2009\$K)]", has rows 1 through 28 visible. An "Orphan DEC" dialog box is open in the foreground, listing columns 1 through 5: CC, KBD, OWS, PSP, and RMM. Each column has a "Resolution" dropdown menu. The dialog box also contains instructions: "The following columns do not correspond to columns in the session. Please indicate what you wish to do with their contents. (Press <Cancel> to discard all of these columns' contents.)".

Orphan DEC Dialog
after paste command

Row Copy Results (1 of 4)

Missing Variables Error

ACE 7.1a - [1 Step 1.aceit - Methodology (BY2009\$K)]

File Edit View Documentation Calc Cases Reports Tools Window Help

Methodology

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	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	LAN (*) LAN	CC (\$) Central Comput	KBD (\$) Keyboard
14	*My Program Estimate		*Estimate								
15	SDD										
16	Contractor Costs		SDD_CNTCT								
17	Airborne Systems (PME)										
18	Air Vehicle (Group A)										
19	Non-Recurring	3600	GPA_NR		%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	900	2000	150
20	Recurring	3600	GPA_REC		%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	1200	1500	250
21	Mission Avionics (Group B)										
22	Non-Recurring										
23	Recurring										
24	Testbed										
25	Labs										
26	Computer Programs										
27	Trial Installation, PAT & Delivery										
28	Non-Recurring										
29	Recurring										
30	System Engineering/Project Management										
31	Systems Engineering										
32	Project Management/Customer Support	3600			%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	1200	1500	250
33	System Test and Evaluation	3600	ST&E		%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	900	2000	150
34	Integrated Logistics Support	3600	ILS		%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	1200	1500	250
35	Govt Costs										
36	GFE	3600	SDD_GFE	*MTH575	F	GFE					
37	Test	3600		*MTH575	F	Sortie * fyfact					
38	SPO	3600	SDD_SPO		F						

Error Log - 1 Step 1.aceit (BY2009\$K)

0 Unused Var 0 Information 0 Warning 2 Fatal

Error Code	Row #	Severity	Description
MTH575	36	Fatal	Variable 'GFE' could not be found.
MTH575	37	Fatal	Variable 'Sortie' could not be found.

Set as Default Goto Error Copy Close Help

Ready

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Row Copy Results (2 of 4)

Other Information Imported

ACE 7.1a - [1 Step 1.aceit - All Columns (BY2009\$K)]

File Edit View Documentation Calc Cases Reports Tools Window Help

All Columns

135%

Arial 10

	WBS/CES Description	WBS/CES/VA R Definition	Category 1	Category 2	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Distribution Form	Grouping	Group Strengt	Low (% of PE)	High (% of PE)
14	*My Program Estimate																			
15	SDD																			
16	Contractor Costs																			
17	Airborne Systems (PME)																			
18	Air Vehicle (Group A)																			
19	Non-Recurring		KTR Briefing			25	40	35								Triangular	SDD_TOT	.95	80	150
20	Recurring		KTR Briefing			25	40	35								Triangular	SDD_TOT	.75	50	120
21	Mission Avionics (Group B)																			
22	Non-Recurring		KTR Briefing			25	40	35								Triangular	SDD_TOT	.95	80	150
23	Recurring																			
24	Testbed		KTR Briefing			25	75									Triangular	SDD_TOT	.75	50	120
25	Labs		KTR Briefing			50	50									Triangular	SDD_TOT	.75	50	120
26	Computer Programs		KTR Briefing			25	40	35								Triangular	SDD_TOT	.95	80	150
27	Trial Installation, PAT & Deliv																			
28	Non-Recurring		KTR Briefing			10	24	66								Triangular	SDD_TOT	.95	80	150
29	Recurring		KTR Briefing			10	24	66								Triangular	SDD_TOT	.95	80	150
30	System Engineering/Project M																			
31	Systems Engineering		KTR Briefing			25	40	35								Triangular	SDD_TOT	.75	50	120
32	Project Management/Custo		KTR Briefing			25	40	35								Triangular	SDD_TOT	.75	50	120
33	System Test and Evaluation		KTR Briefing				50	50								Triangular	SDD_TOT	.95	80	150
34	Integrated Logistics Support		KTR Briefing			25	40	35												
35	Govt Costs																			
36	GFE																			
37	Test		1	Historical			5	13												

Ready

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Note category column title, narrative keyword, yearly inputs (2010 - 2012), and RI\$K inputs

Row Copy Results (3 of 4)

Adjusting a DEC Type

ACE 7.1a - [1 Step 1.aceit - Methodology (BY2009\$K)]

WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	LAN (*)	CC (\$) Central Comput	KBD (\$) Keyboard
14 *My Program Estimate		*Estimate								
15 SDD			\$ 93,151,243 *							
16 Contractor Costs		SDD_CNTCT	\$ 81,251,470 *							
17 Airborne Systems (PME)			\$ 53,061,808 *							
18 Air Vehicle (Group A)			\$ 14,094,831 *							
19 Non-Recurring	3600	GPA_NR	\$ 6,708,893 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	900	2000	150
20 Recurring	3600	GPA_REC								
21 Mission Avionics (Group B)										

LAN data, totaling 10M in FY 1997 \$, is omitted as DEC is Comment type.

ACE 7.1a - [1 Step 1.aceit - Methodology (BY2009\$K)]

Error Log - 1 Step 1.aceit (BY2009\$K)

Error Code	Row #	Severity	Description
MTH562	38	Warning	Unused variable 'SDD_SPO'.
MTH550	47	Warning	WBS has unspecified methodology.
MTH859	19	Information	The variable 'LAN' references comment DEC.
MTH859	20	Information	The variable 'LAN' references comment DEC.
MTH859	22	Information	The variable 'LAN' references comment DEC.
MTH859	24	Information	The variable 'LAN' references comment DEC.
MTH859	25	Information	The variable 'LAN' references comment DEC.
MTH859	26	Information	The variable 'LAN' references comment DEC.
MTH859	28	Information	The variable 'LAN' references comment DEC.
MTH859	29	Information	The variable 'LAN' references comment DEC.
MTH859	31	Information	The variable 'LAN' references comment DEC.
MTH859	32	Information	The variable 'LAN' references comment DEC.

ACE 7.1a - [1 Step 1.aceit - Methodology (BY2009\$K)]

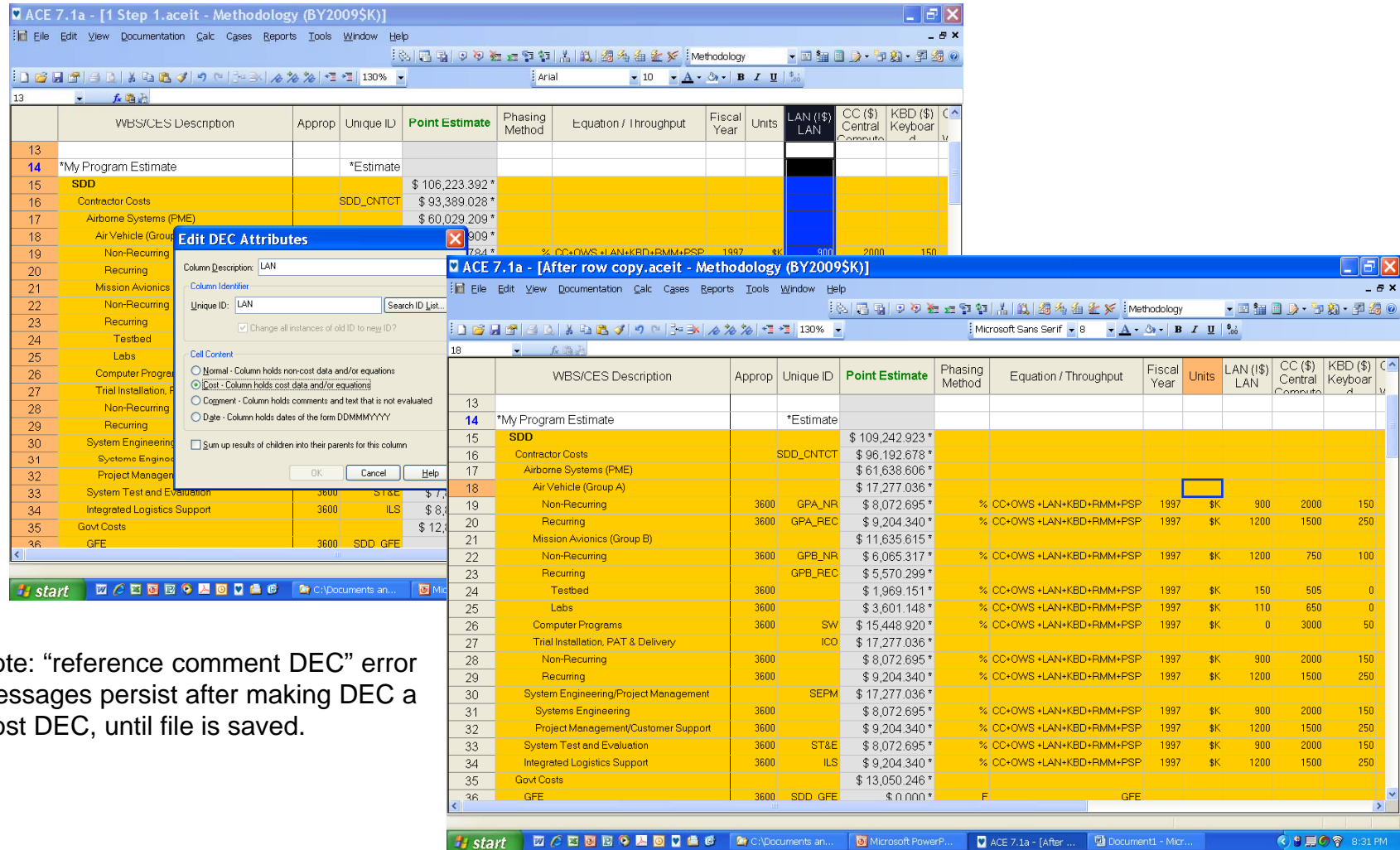
WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	LAN (I)	CC (\$) Central Comput	KBD (\$) Keyboard
13										
14 *My Program Estimate		*Estimate								
15 SDD			\$ 106,223,392 *							
16 Contractor Costs		SDD_CNTCT	\$ 93,389,028 *							
17 Airborne Systems (PME)			\$ 60,029,209 *							
18 Air Vehicle (Group A)			\$ 16,679,909 *							
19 Non-Recurring	3600	GPA_NR	\$ 7,816,784 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	900	2000	150
20 Recurring	3600	GPA_REC	\$ 8,262,125 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	1200	1500	250
21 Mission Avionics (Group B)			\$ 11							
22 Non-Recurring	3600	GPB_NR	\$ 5							
23 Recurring	3600	GPB_REC	\$ 5							
24 Testbed	3600		\$ 1							
25 Labs	3600		\$ 3							
26 Computer Programs	3600	SW	\$ 15							
27 Trial Installation, PAT & Delivery		ICO	\$ 16							
28 Non-Recurring	3600		\$ 7							
29 Recurring	3600		\$ 8							
30 System Engineering/Project Management		SEPM	\$ 16							
31 Systems Engineering	3600		\$ 7							
32 Project Management/Customer Support	3600		\$ 8							
33 System Test and Evaluation	3600	ST&E	\$ 7							
34 Integrated Logistics Support	3600	ILS	\$ 8							
35 Govt Costs			\$ 12							
36 GFE	3600	SDD_GFE	\$ 0.000 *	F						

Error Log - 1 Step 1.aceit (BY2009\$K)

Error Code	Row #	Severity	Description
MTH550	47	Warning	WBS has unspecified methodology.
MTH859	19	Information	The variable 'LAN' references comment DEC.
MTH859	20	Information	The variable 'LAN' references comment DEC.
MTH859	22	Information	The variable 'LAN' references comment DEC.
MTH859	24	Information	The variable 'LAN' references comment DEC.
MTH859	25	Information	The variable 'LAN' references comment DEC.
MTH859	26	Information	The variable 'LAN' references comment DEC.
MTH859	28	Information	The variable 'LAN' references comment DEC.
MTH859	29	Information	The variable 'LAN' references comment DEC.
MTH859	31	Information	The variable 'LAN' references comment DEC.
MTH859	32	Information	The variable 'LAN' references comment DEC.
MTH859	33	Information	The variable 'LAN' references comment DEC.

With DEC changed to normal type, the \$10M plus inflation is added to the estimate

Row Copy Results (4 of 4) Adjusting DEC Type & Results



WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	LAN (\$)	CC (\$)	KBD (\$)
*My Program Estimate		*Estimate								
SDD			\$ 106,223,392 *							
Contractor Costs		SDD_CNTCT	\$ 93,389,028 *							
Airborne Systems (PME)			\$ 60,029,209 *							
Air Vehicle (Group A)			309 *							
Non-Recurring			784 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	300	2000	150
Recurring										
Mission Avionics (Group B)										
Non-Recurring										
Recurring										
Testbed										
Computer Programs										
Trial Installation, PAT & Delivery										
Non-Recurring										
Recurring										
System Engineering/Project Management		SEPM	\$ 17,277,036 *							
Systems Engineering	3600	ST&E	\$ 8,072,695 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	900	2000	150
Project Management/Customer Support	3600	ILS	\$ 9,204,340 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	1200	1500	250
System Test and Evaluation	3600	ST&E	\$ 8,072,695 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	900	2000	150
Integrated Logistics Support	3600	ILS	\$ 9,204,340 *		% CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	1200	1500	250
Govt Costs			\$ 13,050,246 *							
GFE	3600	SDD_GFE	\$ 0.000 *							

Note: "reference comment DEC" error messages persist after making DEC a Cost DEC, until file is saved.

Getting Ready

- **Ensure FY and Units are specified for all \$ inputs in the source session (normal best practice) – else must check at end of Insert Section process**
- **Ensure no fatal errors in section to be exported**
- **Highlight continuous block of rows in source session**

OR

- **Create a section consisting of the block of rows to be exported and imported**

Creating the Template

- In source session, on File menu select Save Section
- In Save Section Wizard opening dialog, select Row Range button or Section button; if using Section, enter Section ID and Description for the new template
- Next: For variables identified by ACE as used in equations for these rows, select: Exclude, Unique, Share
- Next: Name/Locate .AFF file
 - Filename default is what was entered for Section name
 - Default location: ACE Data file or browse to preferred location
 - Finish

Using the Template: Introduction

- In receiving session File menu, select Insert Section
- In Insert Section Wizard, select your template (.AFF file)
 - Show All, or
 - Show System, or
 - Show Custom, or
 - Browse to any path by clicking the Browse button (...)
- Next: View template to ensure it's what you want
- Next: Choose where to insert
 - Above an existing section marker, or at top or bottom of session
 - Variable names you've marked Unique will have a 1 added at the end of their names, in any formula referencing the variable as well as where it's instantiated, if a same-named variable existed in the receiving session
 - All row data will be imported, as with Row Copy

Using the Template: Operations

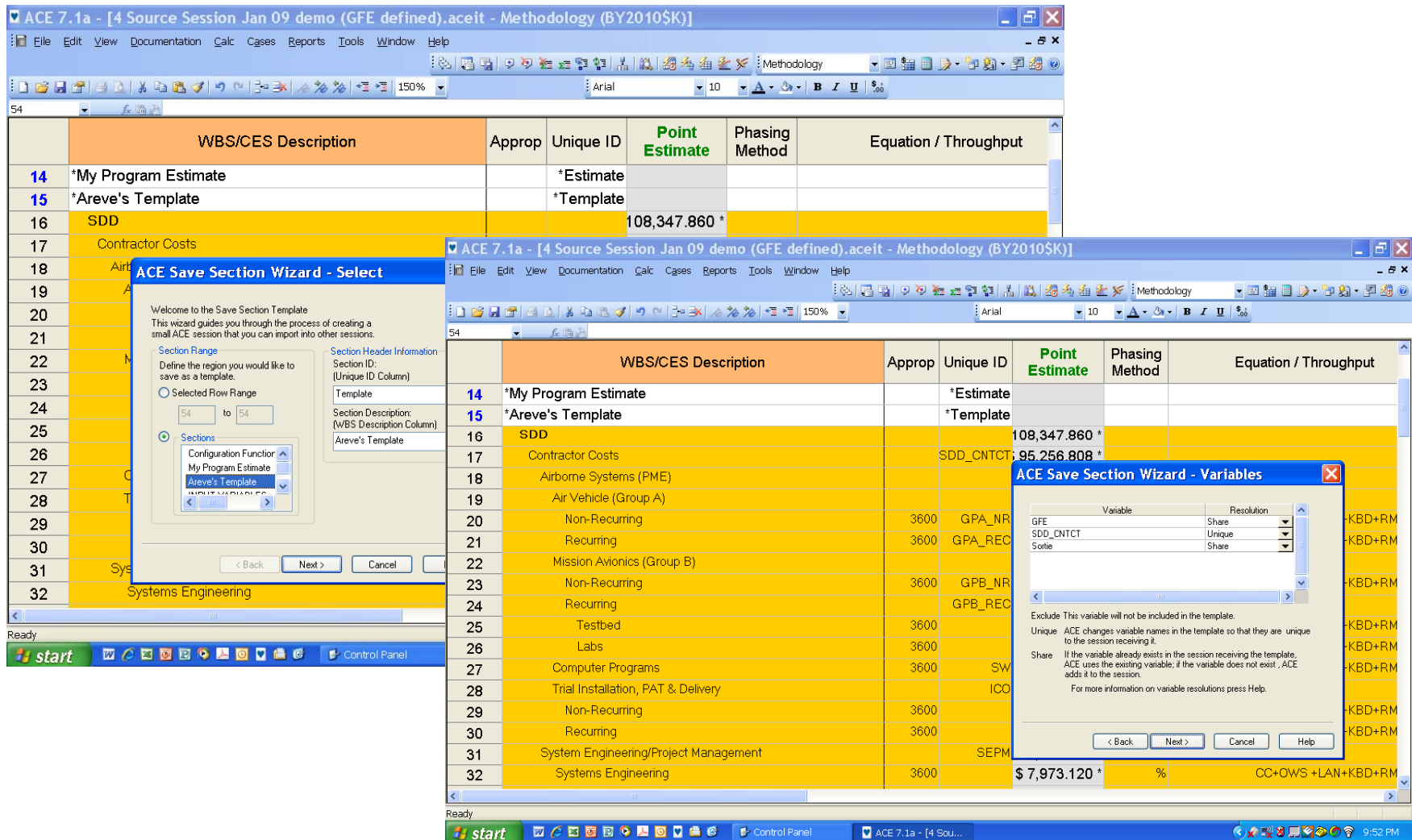
- **DEC resolution**
 - DEC in source session but not in receiving session will be added and will retain its DEC type
 - If receiving session has DEC with same name, data will go there; user may have to adjust DEC type
- **Category column data automatically transferred**
 - Default column name, not source session column name
- **Narrative keywords**
 - ACE selects them
 - They integrate with keywords in receiving session

Using the Template: Cautions

- **Cautions**

- A UID nested within the equation that defines another UID will not be brought in automatically
 - The rows you specified, plus rows whose UIDs are directly referenced from those rows' equations, are brought in with the indentation they had in the source session.
 - May not be at the right indentation for the receiving session
 - Correct, row by row, if necessary
 - Take advantage of ACE error trapping to resolve above issues
-
- If the source session/rows have input data in years outside those of the receiving session, those data are not imported
 - Yearly inputs are imported relative to session start year
 - No explicit warning if the source data had a fatal error

Save Section Wizard Select and Variables Dialogs



The screenshot displays the ACE 7.1a software interface with a table of WBS/CES items and two wizard dialog boxes overlaid.

Table Data:

	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput
14	*My Program Estimate		*Estimate			
15	*Areve's Template		*Template			
16	SDD			108,347.860 *		
17	Contractor Costs					
18	Airborne Systems (PME)					
19	Air Vehicle (Group A)					
20	Non-Recurring	3600	GPA_NR			
21	Recurring	3600	GPA_REC			
22	Mission Avionics (Group B)					
23	Non-Recurring	3600	GPB_NR			
24	Recurring		GPB_REC			
25	Testbed	3600				
26	Labs	3600				
27	Computer Programs	3600	SW			
28	Trial Installation, PAT & Delivery		ICO			
29	Non-Recurring	3600				
30	Recurring	3600				
31	System Engineering/Project Management		SEPM			
32	Systems Engineering	3600				
				\$ 7,973.120 *	%	CC+OWS +LAN+KBD+RM

ACE Save Section Wizard - Select Dialog:

Welcome to the Save Section Template. This wizard guides you through the process of creating a small ACE session that you can import into other sessions.

Section Range: Define the region you would like to save as a template.

Selected Row Range: 54 to 54

Sections:

- Configuration Function
- My Program Estimate
- Areve's Template

Section Header Information:

Section ID: (Unique ID Column): Template

Section Description: (WBS Description Column): Areve's Template

ACE Save Section Wizard - Variables Dialog:

Variable	Resolution
GFE	Share
SDD_CNTCT	Unique
Sortie	Share

Exclude: This variable will not be included in the template.

Unique: ACE changes variable names in the template so that they are unique to the session receiving it.

Share: If the variable already exists in the session receiving the template, ACE uses the existing variable; if the variable does not exist, ACE adds it to the session.

For more information on variable resolutions press Help.

Save Section Wizard Save Dialog

ACE 7.1a - [4 Source Session Jan 09 demo (GFE defined).aceit - Methodology (BY2010\$K)]

File Edit View Documentation Calc Cases Reports Tools Window Help

Methodology

54

	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput
14	*My Program Estimate		*Estimate			
15	*Areve's Template		*Template			
16	SDD			\$ 108,347.860 *		
17	Contractor Costs		SDD_CNTCT	\$ 95,256.808 *		
18	Airborne Systems (PME)			\$ 61,229.793 *		
19	Air Vehicle			\$ 17,013.508 *		
20	Non-Rec		GPA_NR	\$ 7,973.120 *	%	CC+OWS +LAN+KBD+RM
21	Recurring		GPA_REC	\$ 9,040.388 *	%	CC+OWS +LAN+KBD+RM
22	Mission Avt			\$ 11,444.880 *		
23	Non-Rec		GPB_NR	\$ 5,838.584 *	%	CC+OWS +LAN+KBD+RM
24	Recurring		GPB_REC	\$ 5,606.296 *		
25	Testbe			\$ 1,965.029 *	%	CC+OWS +LAN+KBD+RM
26	Labs			\$ 3,641.267 *	%	CC+OWS +LAN+KBD+RM
27	Computer f		SW	\$ 15,757.898 *	%	CC+OWS +LAN+KBD+RM
28	Trial Install		ICO	\$ 17,013.508 *		
29	Non-Rec			\$ 7,973.120 *	%	CC+OWS +LAN+KBD+RM
30	Recurring			\$ 9,040.388 *	%	CC+OWS +LAN+KBD+RM
31	System Engi		SEPM	\$ 17,013.508 *		
32	Systems E			\$ 7,973.120 *	%	CC+OWS +LAN+KBD+RM

ACE Save Section Wizard - Save

Template Details

Section ID: Template

Section Description: Areve's Template

Number of rows: 31

Please choose the file name for the section template.

File Name:

All yearly data will be added in relative years to the receiving session.

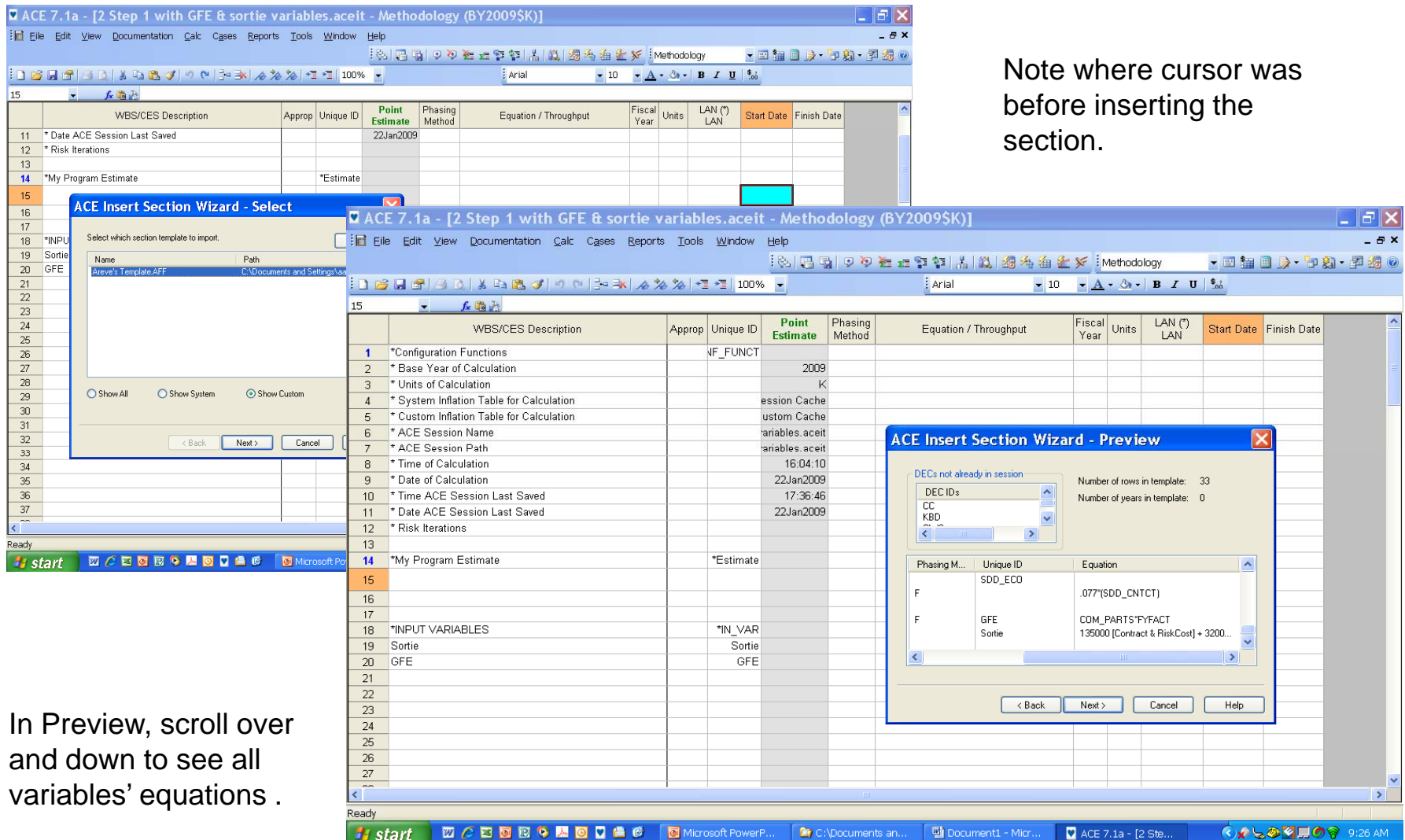
< Back Finish Cancel Help

Ready

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Insert Section Wizard Select and Preview Dialogs

Note where cursor was before inserting the section.



The screenshot displays the ACE 7.1a software interface. The main window shows a spreadsheet with the following data:

WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	LAN (*)	Start Date	Finish Date
* Date ACE Session Last Saved			22Jan2009							
* Risk Iterations										
*My Program Estimate		*Estimate								
*Configuration Functions		NF_FUNCT								
* Base Year of Calculation			2009							
* Units of Calculation				K						
* System Inflation Table for Calculation				ession Cache						
* Custom Inflation Table for Calculation				ustom Cache						
* ACE Session Name				variables.aceit						
* ACE Session Path				variables.aceit						
* Time of Calculation			16:04:10							
* Date of Calculation			22Jan2009							
* Time ACE Session Last Saved			17:36:46							
* Date ACE Session Last Saved			22Jan2009							
* Risk Iterations										
*My Program Estimate		*Estimate								
*INPUT VARIABLES		*IN_VAR								
Sortie		Sortie								
GFE		GFE								

The 'ACE Insert Section Wizard - Select' dialog is open, showing a list of templates. The 'ACE Insert Section Wizard - Preview' dialog is also open, showing a table of variables and their equations:

Phasing M...	Unique ID	Equation
F	SDD_ECO	.077*{SDD_CNTCT}
F	GFE Sortie	COM_PARTS*FYFACT 135000 [Contract & RiskCost] + 3200...

In Preview, scroll over and down to see all variables' equations .

Insert Section Wizard Save Dialog and Initial Result

Select vertical location.

The screenshot shows the 'ACE 7.1a - [2 Step 1 with GFE & sortie variables.aceit - Methodology (BY2009\$K)]' application. A dialog box titled 'ACE Insert Section Wizard - Placement' is open, showing the 'INPUT VARIABLES' section selected for insertion. The background spreadsheet has the following columns: WBS/CES Description, Approp, Unique ID, Point Estimate, Phasing Method, Equation / Throughput, Fiscal Year, Units, LAN (*), LAN, Start Date, and Finish Date. The 'LAN (*)' column is highlighted in orange. Row 15 is selected, and a small black box highlights the cell in the 'LAN (*)' column for that row.

DECs at default width

Insert Section Results (1 of 2)

ACE 7.1a - [2 Step 1 with GFE & sortie variables.aceit - Methodology (BY2009\$K)]

	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	LAN (\$)	CC (\$)	KBD (\$)
29	Labs	3600		\$ 3,601.148 *	%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	110	650	0
30	Computer Programs	3600	SW	\$ 15,448.920 *	%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	0	3000	50
31	Trial Installation, PAT & Delivery		ICO	\$ 17,277.036 *							
32	Non-Recurring	3600		\$ 8,072.695 *	%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	900	2000	150
33	Recurring	3600		\$ 9,204.340 *	%	CC+OWS +LAN+KBD+RMM+PSP	1997	\$K	1200	1500	250
34	System Engineering/Project Management		SEPM	\$ 17,277.036 *							
35	Systems Engineering	3600		\$ 8,072.695				\$K	900	2000	150
36	Project Management/Customer Support	3600		\$ 9,204.340				\$K	1200	1500	250
37	System Test and Evaluation	3600	ST&E	\$ 8,072.695				\$K	900	2000	150
38	Integrated Logistics Support	3600	ILS	\$ 9,204.340				\$K	1200	1500	250
39	Govt Costs			\$ 24,245.441							
40	GFE	3600	SDD_GFE	\$ 5,500.000							
41	Test		OVT_TEST	\$ 9,000.000							
42	Test	3600		\$ 9,000.000							
43	SPO	3600	SDD_SPO	\$ 2,338.605							
44	A&AS	3600		\$ 1,066.404				\$K			
45	FFRDC	3600		\$ 1,272.201				\$K			
46	ECO		SDD_ECO	\$ 7,406.836							
47	ECO	3600		\$ 7,406.836							
48											
49											
50											
51	*INPUT VARIABLES		*IN_VAR								
52	Sortie		Sortie	500.000 *			500				
53	GFE		GFE	500.000 *			500				

Edit DEC Attributes

Column Description: LAN

Column Identifier

Unique ID: LAN

Change all instances of old ID to new ID?

Cell Content

Normal - Column holds non-cost data and/or equations

Cost - Column holds cost data and/or equations

Comment - Column holds comments and text that is not evaluated

Date - Column holds dates of the form DDMMYYYY

Sum up results of children into their parents for this column

DEC widths reduced, DEC type of LAN DEC modified; note shared variables

Insert Section Results (2 of 2)

ACE 7.1a - [After section insert.aceit - All Columns (BY2009\$K)]

File Edit View Documentation Calc Cases Reports Tools Window Help

All Columns

135%

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	WBS/CES Description	Category 1	Category 2	WBS/CES SVAR	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Distribution Form	Grouping	Group	Low (% of PE)	High (% of PE)
19	SDD																			
20	Contractor Costs																			
21	Airborne Systems (PME)																			
22	Air Vehicle (Group A)																			
23	Non-Recurring	KTR Briefing			25	40	35									Triangular	ID_TOT	.95	80	150
24	Recurring	KTR Briefing			25	40	35									Triangular	ID_TOT	.75	50	120
25	Mission Avionics (Group B)																			
26	Non-Recurring	KTR Briefing			25	40	35									Triangular	ID_TOT	.95	80	150
27	Recurring																			
28	Testbed	KTR Briefing			25	75										Triangular	ID_TOT	.75	50	120
29	Labs	KTR Briefing			50	50										Triangular	ID_TOT	.75	50	120
30	Computer Programs	KTR Briefing			25	40	35									Triangular	ID_TOT	.95	80	150
31	Trial Installation, PAT & Delivery																			
32	Non-Recurring	KTR Briefing			10	24	66									Triangular	ID_TOT	.95	80	150
33	Recurring	KTR Briefing			10	24	66									Triangular	ID_TOT	.95	80	150
34	System Engineering/Project Management																			
35	Systems Engineering	KTR Briefing			25	40	35									Triangular	ID_TOT	.75	50	120
36	Project Management/Customer Support	KTR Briefing			25	40	35									Triangular	ID_TOT	.75	50	120
37	System Test and Evaluation	KTR Briefing				50	50									Triangular	ID_TOT	.95	80	150
38	Integrated Logistics Support	KTR Briefing			25	40	35													
39	Govt Costs																			
40	GFE																			
41	Test																			
42	Test	Historical			5	5	13													

Ready

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Note category column title, narrative keyword, yearly inputs (2009 - 2011) , and RI\$K inputs

What It Does

- **Imports results of any of these types:**
 - **Phased \$BY cost and non-cost**
 - **Total \$BY cost and non-cost**
 - **RI\$K**
- **Rows to import don't have to be a continuous block in the source session**
- **In the receiving session, Plug-In automatically records information about the source session**
- **You can later refresh the imported session/session part, i.e., automatically update the receiving session with changes in the source session**

What It Does Not Do

- **Doesn't import other row information**
 - Equation
 - Unique ID
 - Narrative
 - Source session DEC and Category Column data
 - Source session RI\$K parameters

Getting Ready

- **Ensure source session contains no fatal errors**
- **In receiving session, set up workscreen to receive the data, unless you want 6 to 8 new DEC's added to an existing screen**
 - Five documenting source file information
 - One showing type of results imported for each row
 - Two used if total cost and/or non-cost results imported
- **Use View Arrange (Ctrl-G), Click New button, then No**
- **Give the new workscreen a name and click OK**

Using It: The Basics

- **On Tools menu, select ACE-to-ACE Plug-In, then “Import WBS Elements” box**
 - Other alternative is to update previously imported session(s)
 - Select file to import from, then
 - Select rows on WBS Elements tab
 - Select data types to be imported on Results tab
 - Click OK
 - If source session contains any fatal errors, import will not occur
- **ACE will create the required WBS elements and DEC's and insert the selected results**

Using It: Additional Options

- **Default: imported data will be at the bottom of the session**
 - Or you can set import to occur below the current cursor position
 - To do that. click on Tools > Options from Plug-In dialog.
- **If years don't match, years will be added to each end as needed, once you OK this**
 - If you don't OK it, the Plug-In will not run
 - If using matrix functions, StepVal() or Coef(), or methods that continue to the last year or start with the first year of the session, check to see what needs adjusting

Results Inserted: Basics

- **New DEC's left to right in order shown on next slide, with default names shown**
- **WBS element names, appropriations, BY and units**
- **Phased results in FY columns**
- **Methodology**
 - **Not necessarily the original method**
 - **BY for phased costs**
 - **IS for phased non-cost**
 - **C for non-phased results**

Results Inserted: New DEC's

- ACE_TNC and/or ACE_TBYC, if you chose total non-cost and/or cost data types
- ACE_IMPORT_RESULTS notes whether phased and/or RI\$K data was imported (if neither, column will be blank)
- **ACE_CASE_NAME** – name of case used from source session
- ACE_IMPORT_DATE and ACE_FILE_DATE
- **ACE_ELEMENT_EXTERNAL_CODE** (identifies source session rows)
- **ACE_SESSION** (includes path)

If you change the DEC names of any of the three bold-faced DEC's above, you won't be able to refresh the data.

Results Inserted: Treatment of RI\$K

- **Custom cumulative distribution functions (CDFs) initially reflect the RI\$K distributions in the source session**
 - **Can be observed or edited using Tools>RI\$K Custom CDFs**
- **For description of a detailed approach to modifying the RI\$K results from imported session(s) to reflect correlations that need to be recognized when combining multiple estimates, see “Implementing Tiered Correlation” section of 2008 ACE Users Group presentation by Antonio Rippe of TRI:**
[Linking ACE Sessions Together with the ACE to ACE Plug-In](#)

Plug-In Preparation

Creating Custom Workscreen

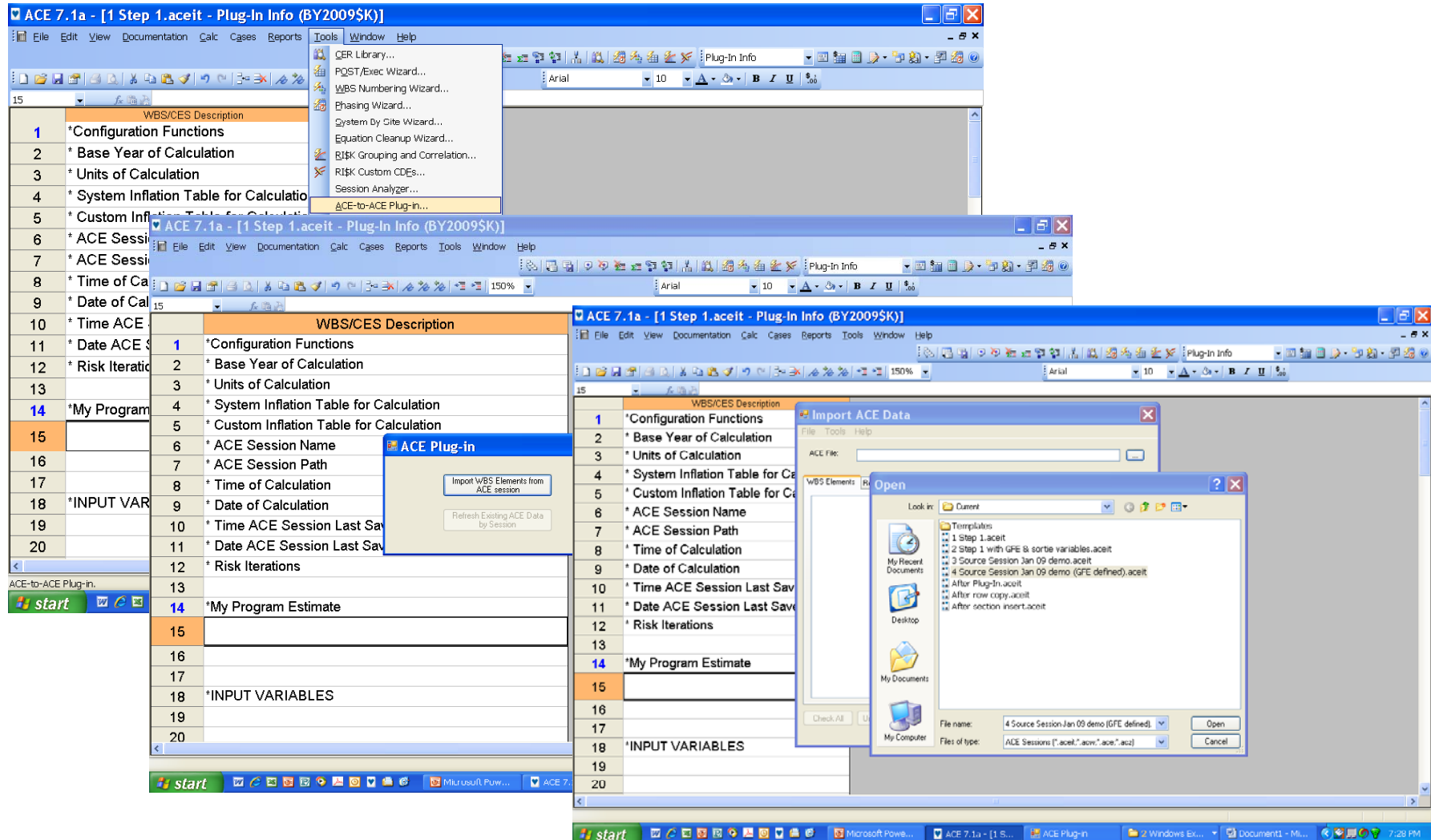
The screenshot shows the ACE 7.1a interface with several dialog boxes open to create a custom workscreen:

- Top Dialog:** 'Arrange Workscreen' with 'Workscreen Title' set to 'Methodology'.
- Middle Dialog:** 'Create New Workscreen' with 'Use current workscreen as template?' checked. An arrow points to the 'Yes' button.
- Bottom Dialog:** 'Arrange Workscreen' with 'Workscreen Title' set to 'Plug-In Info'.

Annotations on the image:

- An arrow points to the 'Workscreen Title' field in the top dialog with the text: "Give the custom workscreen a name."
- The text "Workscreen is created." is located at the bottom right of the screenshot.

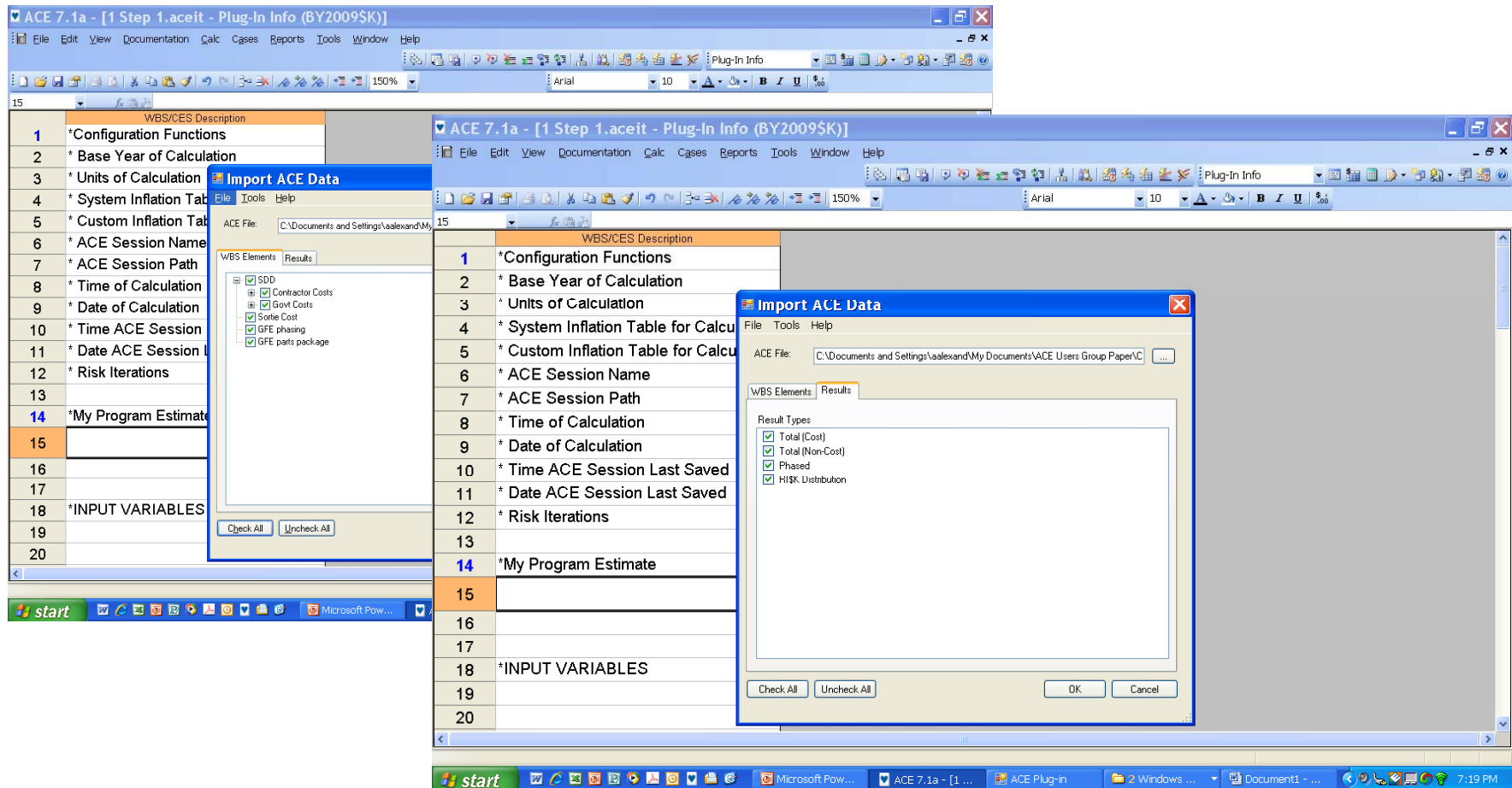
ACE-to-ACE Plug-In Initial Operations



The screenshot displays the ACE 7.1a software interface. The main window shows a table with the following columns: 'WBS/CES Description' and 'ACE Session Name'. The table contains 20 rows of data, including items like '*Configuration Functions', '*Base Year of Calculation', '*Units of Calculation', '*System Inflation Table for Calculation', '*Custom Inflation Table for Calculation', '*ACE Session Name', '*ACE Session Path', '*Time of Calculation', '*Date of Calculation', '*Time ACE Session Last Saved', '*Date ACE Session Last Saved', '*Risk Iterations', '*My Program Estimate', and '*INPUT VARIABLES'.

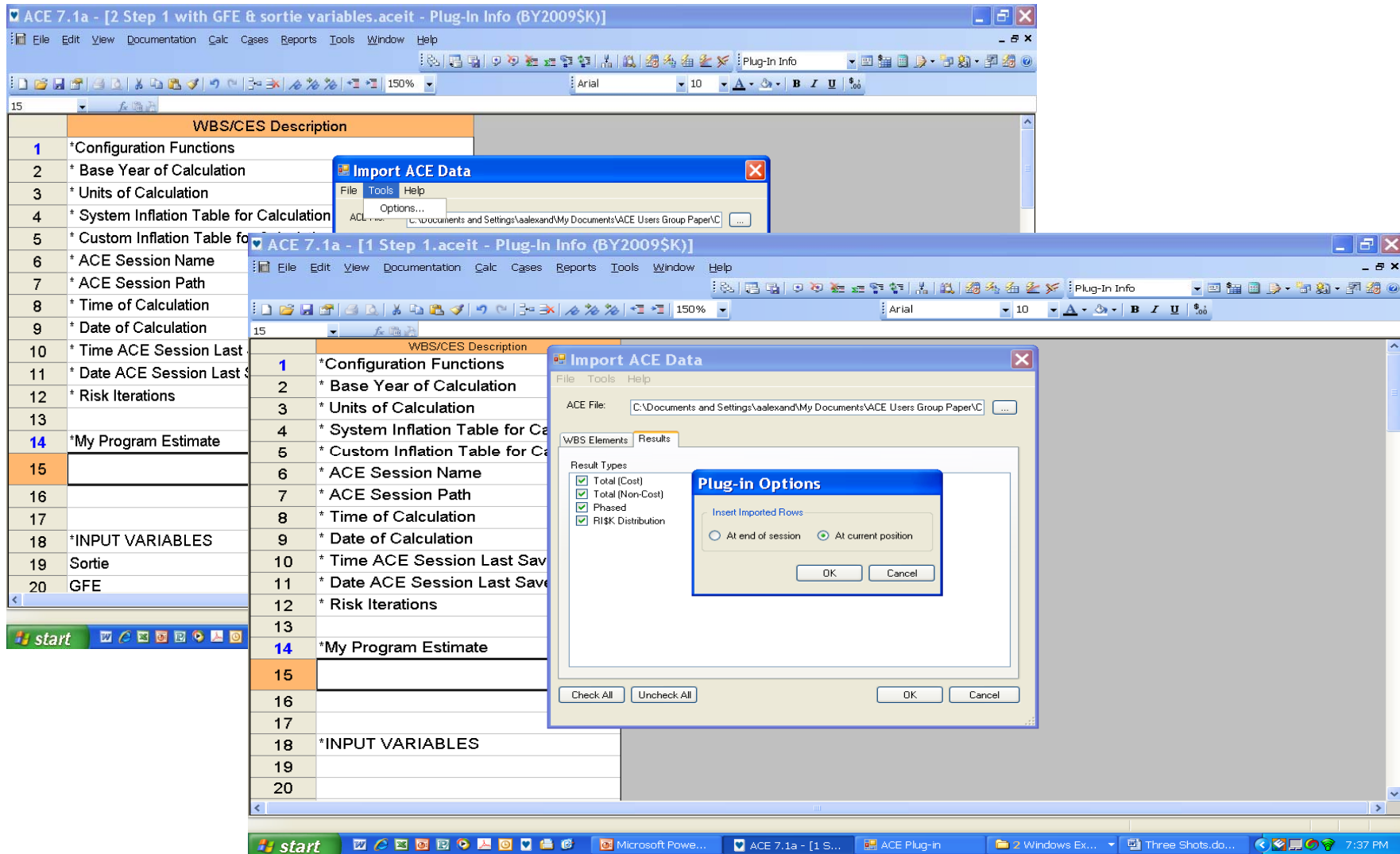
The 'Tools' menu is open, showing the 'ACE-to-ACE Plug-In...' option. The 'Import ACE Data' dialog box is also open, showing a list of files in the 'Current' directory, including templates and source sessions. The 'File name' field is set to '4 Source Session-Jan 09 demo (GFE defined).aceit' and the 'Files of type' is set to 'ACE Sessions (*.aceit;*.acov;*.ace;*.acu)'.

ACE-to-ACE Plug-In Dialog Tabs



The screenshot displays the ACE 7.1a software interface. The main window shows a list of WBS/CES items with descriptions such as '*Configuration Functions', '*Base Year of Calculation', and '*My Program Estimate'. An 'Import ACE Data' dialog box is open, showing the 'WBS Elements' tab with a list of items and their corresponding 'Results' types. The 'Results' tab is also visible, showing a list of result types with checkboxes for 'Total (Cost)', 'Total (Non-Cost)', 'Phased', and 'HISK Distribution'. The dialog box also includes an 'ACE File' field and 'Check All' and 'Uncheck All' buttons.

ACE-to-ACE Plug-In Vertical Placement



The screenshot displays the ACE software interface with two overlapping 'Import ACE Data' dialog boxes. The top dialog box is partially obscured by the bottom one. The bottom dialog box has the 'Plug-in Options' sub-dialog open, showing options for 'Insert Imported Rows'.

Table 1: WBS/CES Description

WBS/CES Description
1 *Configuration Functions
2 * Base Year of Calculation
3 * Units of Calculation
4 * System Inflation Table for Calculation
5 * Custom Inflation Table for Calculation
6 * ACE Session Name
7 * ACE Session Path
8 * Time of Calculation
9 * Date of Calculation
10 * Time ACE Session Last Saved
11 * Date ACE Session Last Saved
12 * Risk Iterations
14 *My Program Estimate
15
16
17
18 *INPUT VARIABLES
19 Sortie
20 GFE

Table 2: WBS/CES Description (Bottom Dialog)

WBS/CES Description
1 *Configuration Functions
2 * Base Year of Calculation
3 * Units of Calculation
4 * System Inflation Table for Calculation
5 * Custom Inflation Table for Calculation
6 * ACE Session Name
7 * ACE Session Path
8 * Time of Calculation
9 * Date of Calculation
10 * Time ACE Session Last Saved
11 * Date ACE Session Last Saved
12 * Risk Iterations
13
14 *My Program Estimate
15
16
17
18 *INPUT VARIABLES
19
20

Dialog Box: Import ACE Data

ACE File: C:\Documents and Settings\alexand\My Documents\ACE Users Group Paper\AC...

Dialog Box: Plug-in Options

Result Types:

- Total (Cost)
- Total (Non-Cost)
- Phased
- RISK Distribution

Insert Imported Rows:

- At end of session
- At current position

ACE-to-ACE Plug-In Years Message

The screenshot shows a software application window titled "ACE 7.1a - [2 Step 1 with GFE & sortie variables.aceit - Plug-In Info (BY2009\$K)]". The main window contains a table with the following content:

WBS/CES Description
1 *Configuration Functions
2 * Base Year of Calculation
3 * Units of Calculation
4 * System Inflation Table for Calculation
5 * Custom Inflation Table for Calculation
6 * ACE Session Name
7 * ACE Session Path
8 * Time of Calculation
9 * Date of Calculation
10 * Time ACE Session Last Saved
11 * Date ACE Session Last Saved
12 * Risk Iterations
13
14 *My Program Estimate
15
16
17
18 *INPUT VARIABLES
19 Sortie
20 GFE
21
22
23
24
25
26
27
28
...

Overlaid on this is an "Import ACE Data" dialog box with the following fields:

- ACE File: C:\Documents and Settings\alexand\My Documents\ACE Users Group Paper\...
- WBS Elements: Results

A "Year Ranges Do Not Match" error dialog box is displayed in the foreground with the following text:

Year Ranges Do Not Match

The year range in the ACE session does not match the year range in the session to be imported.

Clicking 'Yes' causes the plugin to add 4 additional year(s) to the end of your ACE session. You may need to adjust your session if you have estimating methods that continue to the last year of the estimate.

Do you wish to continue adding phased data?

Buttons: Yes, No

Buttons: Check All, Uncheck All, OK, Cancel

The Windows taskbar at the bottom shows the start button, several application icons, and the system tray with the time 2:34 AM.



CRITICAL THINKING. SOLUTIONS DELIVERED.

ACE-to-ACE Plug-In Results (1 of 3)

ProjectPathRow

ACE 7.1a - [2 Step 1 with GFE & sortie variables.aceit - Plug-In Info (BY2009\$K)]

File Edit View Documentation Calc Cases Reports Tools Window Help

Plug-In Info

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C:\Documents and Settings\aaalexand\My Documents\ACE Users Group Paper\Current\4 Source Session Jan 09 demo (GFE defined).aceit

	WBS/CES Description	ACE_TNC (\$) Total	ACE_TBYC (\$) Total	ACE_IMPORT_RESULTS	ACE_CASE_NAME (*)	ACE_IMPORT_DATE	ACE_FILE_DATE (*) Date	ACE_ELEMENT_EX	ACE_SESSION (*) ACE Session
4	Airborne Systems (PME)			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE59	C:\Documents and
5	Air Vehicle (Group A)			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE77	C:\Documents and
6	Non-Recurring	7973.11980063043		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE78	C:\Documents and
7	Recurring	9040.38780543922		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE79	C:\Documents and
8	Mission Avionics (Group B)			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE80	C:\Documents and
9	Non-Recurring	5838.58379101283		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE81	C:\Documents and
10	Recurring			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE82	C:\Documents and
11	Testbed	1965.02873826561		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE83	C:\Documents and
12	Labs	3641.26731052413		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE84	C:\Documents and
13	Computer Programs	15757.8981886475		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE86	C:\Documents and
14	Trial Installation, PAT & Delivery			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE87	C:\Documents and
15	Non-Recurring	7973.11980063043		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE88	C:\Documents and
16	Recurring	9040.38780543922		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE89	C:\Documents and
17	System Engineering/Project Management			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE90	C:\Documents and
18	Systems Engineering	7973.11980063043		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE91	C:\Documents and
19	Project Management/Customer Support	9040.38780543922		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE92	C:\Documents and
20	System Test and Evaluation	7973.11980063043		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE93	C:\Documents and
21	Integrated Logistics Support	9040.38780543922		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE98	C:\Documents and
22	Govt Costs			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	OGC\$	C:\Documents and
23	GFE	522.620220105676		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	GFE\$	C:\Documents and
24	Test			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	Test\$	C:\Documents and
25	Test	3370.90041968161		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	Test4\$	C:\Documents and
26	SPO			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	SPO\$	C:\Documents and
27	A&AS	1087.7319575901		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE99	C:\Documents and
28	FFRDC	1297.64514238819		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE100	C:\Documents and
29	ECO			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE246	C:\Documents and
30	ECO	7334.77425086011		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ECO_s\$	C:\Documents and
31	Sortie Cost	187.272245537867		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE426	C:\Documents and
32	GFE phasing	522.620220105676		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE262	C:\Documents and
33	GFE parts package		522.620220105676	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE263	C:\Documents and

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ACE-to-ACE Plug-In Results (2 of 3)

ACE 7.1a - [After Plug-In.aceit - Methodology (BY2009\$K)]

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Methodology

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	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units
13								
14	*My Program Estimate		*Estimate					
15	*** C:\Documents and Settings\aaalexand\My Documents\VACE U							
16	SDD			\$ 106,735.765 (37%) *				
17	Contractor Costs			\$ 93,389.028 (38%) *				
18	Airborne Systems (PME)			\$ 60,029.209 (28%) *				
19	Air Vehicle (Group A)			\$ 16,679.909 (49%) *				
20	Non-Recurring	3600		\$ 7,816.784 (36%) *	BY	[Cost Throughput]	2010	\$K
21	Recurring	3600		\$ 8,863.125 (64%) *	BY	[Cost Throughput]	2010	\$K
22	Mission Avionics (Group B)			\$ 11,220.470 (52%) *				
27	Computer Programs	3600		\$ 15,448.920 (37%) *	BY	[Cost Throughput]	2010	\$K
28	Trial Installation, PAT & Delivery			\$ 16,679.909 (26%) *				
31	System Engineering/Project Management			\$ 16,679.909 (70%) *				
34	System Test and Evaluation	3600		\$ 7,816.784 (36%) *	BY	[Cost Throughput]	2010	\$K
35	Integrated Logistics Support	3600		\$ 8,863.125 *	BY	[Cost Throughput]	2010	\$K
36	Govt Costs			\$ 13,346.737 (46%) *				
37	GFE	3600		\$ 512.373 *	BY	[Cost Throughput]	2010	\$K
38	Test			\$ 3,304.804 *				
40	SPO			\$ 2,338.605 *				
43	ECO			\$ 7,190.955 (46%) *				
45	Sortie Cost	3600		\$ 0.000 *	C		2010	\$K
46	GFE phasing			522.620 *	IS	[Input Throughput]		
47	GFE parts package	3600		\$ 0.000 *	C		2010	\$K

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ACE-to-ACE Plug-In Results (3 of 3)

ACE 7.1a - [After Plug-In.aceit - All Columns (BY2009\$K)]

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All Columns

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Form=CDF, PE=Undefined, Ref=ACE705_PointEstimate, Seed=3479317

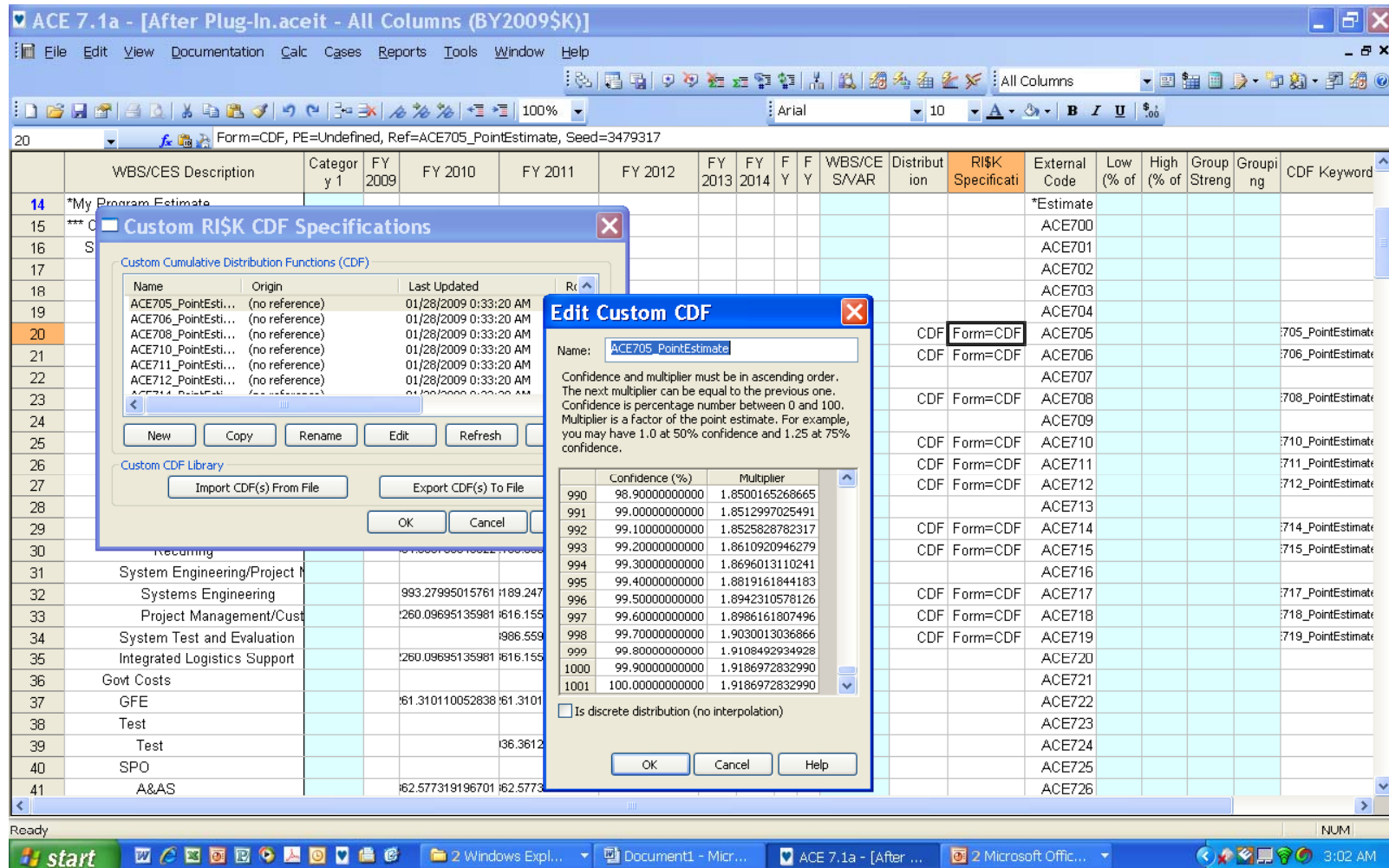
	WBS/CES Description	Category 1	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	F Y	F Y	WBS/CES S/VAR	Distribution	RISK Specificati	External Code	Low (% of	High (% of	Group Streng	Grouping	CDF Keyword
14	*My Program Estimate													*Estimate					
15	*** C:\Documents and Settings\alex...													ACE700					
16	SDD													ACE701					
17	Contractor Costs													ACE702					
18	Airborne Systems (PME)													ACE703					
19	Air Vehicle (Group A)													ACE704					
20	Non-Recurring		993.27995015761	189.24792025217	1790.59193022065							CDF	Form=CDF	ACE705					705_PointEstimate
21	Recurring		260.09695135981	616.15512217569	164.13573190373							CDF	Form=CDF	ACE706					706_PointEstimate
22	Mission Avionics (Group B)													ACE707					
23	Non-Recurring		459.64594775321	335.43351640513	1043.50432685449							CDF	Form=CDF	ACE708					708_PointEstimate
24	Recurring													ACE709					
25	Testbed		91.257184566402	473.77155369921								CDF	Form=CDF	ACE710					710_PointEstimate
26	Labs		820.63365526207	820.63365526207								CDF	Form=CDF	ACE711					711_PointEstimate
27	Computer Programs		939.47454716186	303.15927545902	1515.26436602664							CDF	Form=CDF	ACE712					712_PointEstimate
28	Trial Installation, PAT & De													ACE713					
29	Non-Recurring		97.311980063043	1913.5487521513	1262.25906841608							CDF	Form=CDF	ACE714					714_PointEstimate
30	Recurring		104.036780543922	1169.69307330541	1966.65595158989							CDF	Form=CDF	ACE715					715_PointEstimate
31	System Engineering/Project M													ACE716					
32	Systems Engineering		993.27995015761	189.24792025217	1790.59193022065							CDF	Form=CDF	ACE717					717_PointEstimate
33	Project Management/Cust		260.09695135981	616.15512217569	164.13573190373							CDF	Form=CDF	ACE718					718_PointEstimate
34	System Test and Evaluation			986.55990031521	1986.55990031521							CDF	Form=CDF	ACE719					719_PointEstimate
35	Integrated Logistics Support		260.09695135981	616.15512217569	164.13573190373									ACE720					
36	Govt Costs													ACE721					
37	GFE		61.310110052838	61.310110052838										ACE722					
38	Test													ACE723					
39	Test			36.361227689337	1434.53919199227									ACE724					
40	SPO													ACE725					
41	A&S		62.577319196701	62.577319196701	62.577319196701									ACE726					

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ACE-to-ACE Plug-In

Editing CDFs



The screenshot shows the ACE 7.1a software interface. The main window displays a spreadsheet with columns for WBS/CES Description, Category, and fiscal years (FY 2009 to FY 2012). A dialog box titled 'Custom RI\$K CDF Specifications' is open, showing a list of CDFs and their origins. A sub-dialog box 'Edit Custom CDF' is also open, displaying a table of confidence and multiplier values.

Name	Origin	Last Updated
ACE705_PointEsti...	(no reference)	01/28/2009 0:33:20 AM
ACE706_PointEsti...	(no reference)	01/28/2009 0:33:20 AM
ACE708_PointEsti...	(no reference)	01/28/2009 0:33:20 AM
ACE710_PointEsti...	(no reference)	01/28/2009 0:33:20 AM
ACE711_PointEsti...	(no reference)	01/28/2009 0:33:20 AM
ACE712_PointEsti...	(no reference)	01/28/2009 0:33:20 AM
ACE714_PointEsti...	(no reference)	01/28/2009 0:33:20 AM

Confidence (%)	Multiplier
990	98.90000000000000
991	99.00000000000000
992	99.10000000000000
993	99.20000000000000
994	99.30000000000000
995	99.40000000000000
996	99.50000000000000
997	99.60000000000000
998	99.70000000000000
999	99.80000000000000
1000	99.90000000000000
1001	100.00000000000000

Comparison of Methods, Chart 1 of 2

	Row Copy	Section Templates	ACE-to-ACE Plug-In
Procedure Complexity	Simple	More Complex.	More Complex.
Preparation	Choose block of rows.	Create the template.	Setting up separate workscreen to receive 6 to 8 new DECs (Recommended)
What's Imported	Everything <i>in a continuous block of rows, or Section, except yearly inputs for years not in RS.</i>	Everything <i>in a continuous block of rows, or Section, except yearly inputs for years not in RS. Yearly inputs imported relative to first year.</i>	<i>For user-selected rows (need not be continuous), only results, selected from: cost and non-cost totals, cost and non-cost yearly results, and RISK distribution functions.</i>
Vertical Location of the Imported Data	Above cursor in RS.	Top or bottom of RS, or above selected section marker.	Bottom of RS by default, or user can choose location.
Horizontal Location of Added DECs	Left of cursor		First 6 to 8 columns right of WBS titles, on whichever workscreen you are on in RS
Documentation	Original WBS/element description, narratives, descriptive DECs and category columns; user can modify in RS as appropriate.		Automated transfer of selected information re source session and transfer date,

RS – Receiving session
Colors indicate related cells.

Comparison of Methods, Chart 2 of 2

	Row Copy	Section Templates	ACE-to-ACE Plug-In
Updating for Changes in Source Session	No automated process.		Easy automated process.
Is the Import Subject to "Undo"?	Yes.		No.
Resolution of Conflicts Between Source and RS			
DECs Not in RS	User choice to import or not.	Will be imported; user can delete if desired.	N/A
DEC Type	May need to adjust if DEC already existed in RS.		N/A
Category Column Data	Imported; column name returns to ACE default name.		N/A
Years Not in RS	Data is not imported.		Years added to RS.
UID issues	User may need to resolve missing or duplicated UIDs in RS after import.	Choose from three options per variable during template creation to avoid problems with automatically identified variables; nested variables, however, must be added manually to the RS.	N/A

RS – Receiving session
Colors indicate related cells.

Using Multiple Methods

- **A situation could arise where you'd choose to use two methods to import the *same* estimate/part of an estimate**
 - **You want certain features of the Plug-In; e.g.,**
 - The documentation about the source session that is automatically brought in
 - Ability to refresh from updated source data
 - The RI\$K distribution brought in as a custom CDF, so that it won't change in the new session, or will change only as you determine it should
 - **But you also want some things the Plug-In won't give you; e.g.,**
 - Narratives – take the keywords brought in by Row Copy or Import Section, move them to the Plug-In-created rows, edit as needed
 - The original RI\$K parameters. You can't enter them on the same row as the Plug-In-created row that has a custom CDF, but can include the row, without its variable name, as a reference

- **Each method has advantages and challenges**
 - **Row Copy: simple, but doesn't address differences in years of estimate; must iron out variable conflicts, if any, and re-address RI\$K assessment/grouping in the integrated estimate.**
 - **Template: can be ported to another environment without the original session; some variable issues resolved automatically; more complex, still doesn't address differences in years; must still re-address RI\$K assessment/grouping.**
 - **Plug-In: more complex initial procedure but easy updating; "loss" of original methodology and narratives, but no loss of yearly inputs; automated documentation of where the data came from, and when. RI\$K distributions as CDFs, subject to editing.**
- **Using two methods (Plug-In and Row Copy, or Plug-In and Template[s]) for the same import may sometimes be advisable**