

Documentation in ACE

presented by:

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Why should we document our estimates?

- Provides written justification for cost estimate
- Allows estimate to be replicable and traceable
- Makes the estimate credible
- Adds quality to estimate's content

Another analyst should be able to recreate your estimate using your documentation and arrive at the same answer.



GRITICAL THINKING: Four methods of Documentation

- Comment Rows (Asterisk)
- Brackets
- Comment DEC
- Definition Editor

Document AS YOU GO!

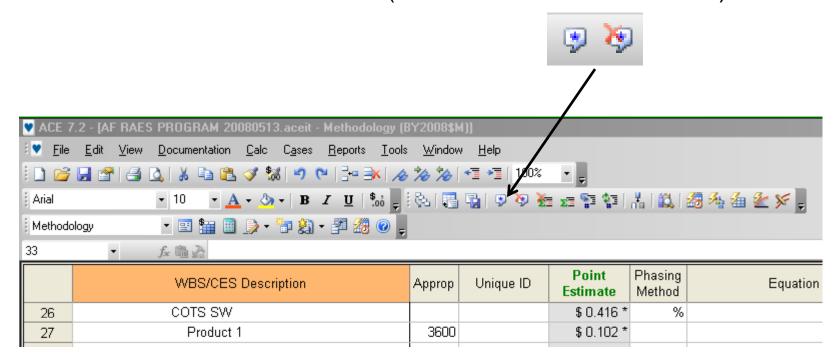


Comment Rows



Comment Rows

- WBS/CES Description Column
- Two very easy ways to do this...
 - Manually type asterisk in first character position, or
 - Use Comment WBS Icon (note the uncomment button)



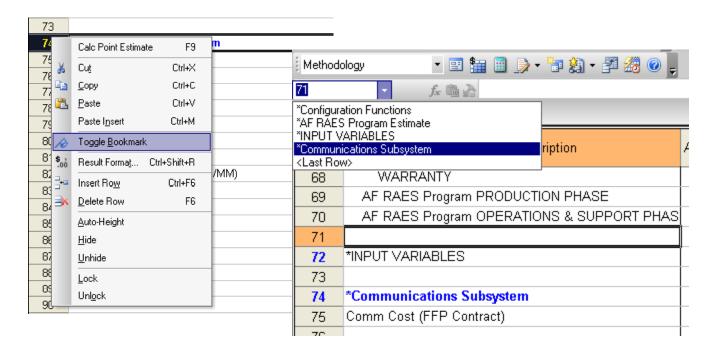


Comment Rows: Uses

Titles of sections

- Good for organization
- Toggle

74	*Communications Subsystem		
75	Comm Cost (FFP Contract)	3600	COMM
76			
77	*Software		
78	Application #1 SLOC Count		SW_A
79	Application #2 SLOC Count		SW_A
80	Application #3 SLOC Count		SW_A
81	Software Productivity		SW_P
82	Software Development Rate (\$/MM)	3600	SW_F
83			





Comment Rows: Uses

• Titles of fiscal year columns on phasing work screen

	WBS/CES Description	FY 2013	FY 2014	FY 2015
306	*AVIONICS REMOVED	QPA	MTBF	MX MANHOURS
307	INDICATOR, TEMPERATURE (EGT)	1	1314.6	201.5
308	TRANSDUCER, PRESSURE RATIO (EPR)	1	3812.5	1642.2
309	INDICATOR, TACHOMETER (N1)	1	4765.6	198.5
310	TRANSMITTER, FUEL FLOW	4	8026.3	390.0



Comment Rows: Uses

Tracker

- For quick notes from version to version, or an excursion
- Add rows at top of ACE session
- Highlight
- Easy to see when opening your ACE session

	WBS/CES Description	Appri
1	***MELISSA'S TRACKER***	
2	*Updated Communications Subsystem Variables	
3	*Need to put risk on variables	
4	*Need to add documentation in keywords screen	
5		
6		
7		

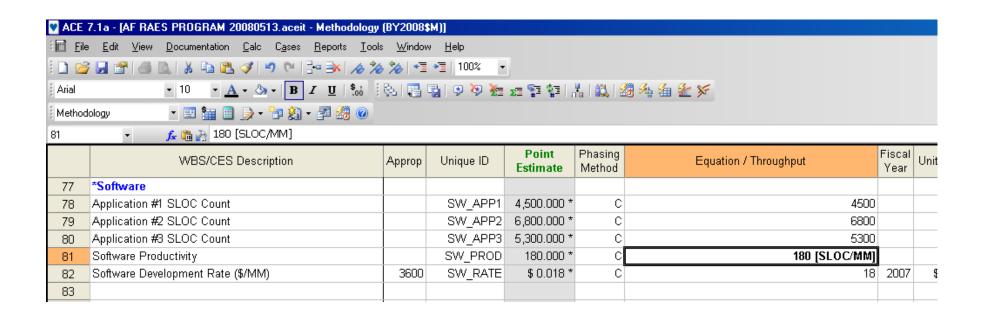


Brackets



Brackets

- Equation/Throughput Column
- Surround text with square brackets []





Brackets: Uses

• Use:

- Quick notes
- Cost Throughputs (BY, TY, SY phasing methods)
- Input Throughputs (I phasing method)

7
7
7
+
+
T
7
)7



Comment DECs



Comment DECs

- Dynamic Equation Columns
- User-defined columns mostly used for immediate inputs or calculations on a row
- Makes session wider (i.e. more columns)
- 4 types of DECs:
 - Normal
 - Cost
 - Comment
 - Date



Comment DECs

- Holds comments and text that is not evaluated
- Data stored here will not be used in any ACE calculations for the row
- Unlike using an asterisk, the ACE row will still calculate
- Use:
 - Select this when you do not want ACE to do anything with this information except store it in the column



How to create Comment DECs

• DEC Icon

Methodology

25

26 27

28



Edit > Add DEC

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Approp

3600

3600

3600

3600

🏂 🛍 🚵 Needs updating

COTS HW

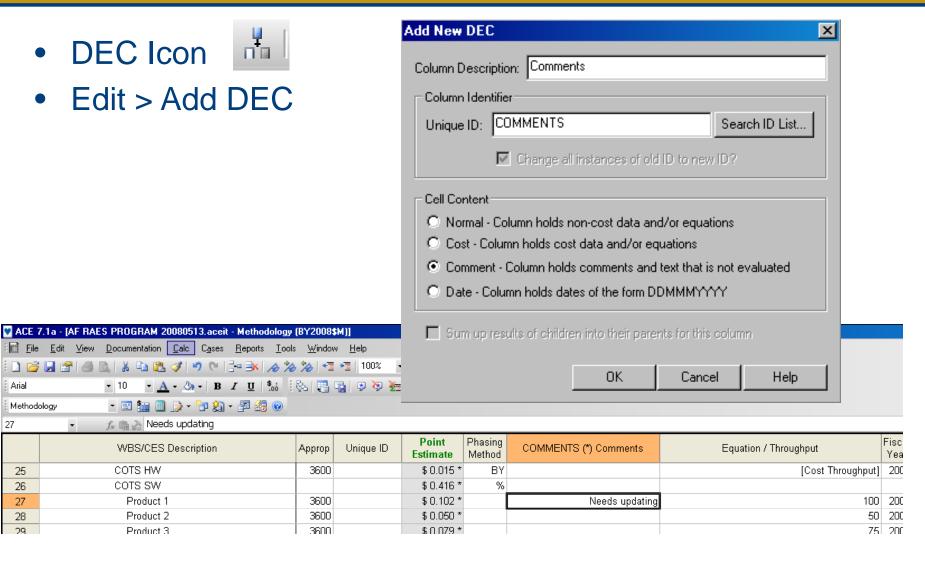
COTS SW

Product 1

Product 2

Product 3

WBS/CES Description



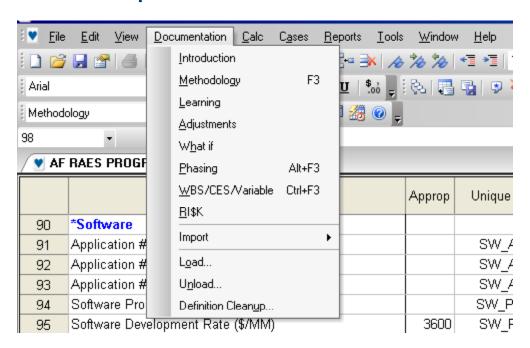


Definition Editor / Keywords Workscreen



Definition Editor

- Documentation drop down menu
- Automatically integrated into documentation output
- Format meets OSD, Air Force and Army cost estimate documentation requirements





Definition Editor: Uses

- View/Edit definitions and descriptions of:
 - WBS
 - Methodologies
 - Adjustments
 - Learning Curve Parameters
 - What-if cases
 - Time-phasing parameters
- Stored on a row-by-row basis
- Format, view and print using Reports commands



Definition Editor: Uses

- Automatic documentation placed into Keywords workscreen:
 - Using system WBS/CES indenture structure
 - Extracting CERs from a library
 - Bringing back a result from CO\$TAT

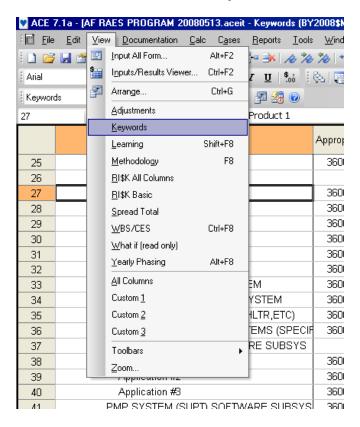
	WBS/CES Description	Approp	Phase Code	WBS/CES/VA R Definition	M D
31	Mission Analysis	3600			
32	AF RAES Program DEVELOPMENT PHASE		EMD		
33	ELECTRONICS SYSTEM		EMD	ELECSY	
34	PRIME MISSION PRODUCT (PMP)		EMD	PMP	
35	RADAR SUBSYSTEM	3600	EMD	RADAR	
36	DATA PROCESSING EQUIPMENT SUBSYS		EMD	DPE	

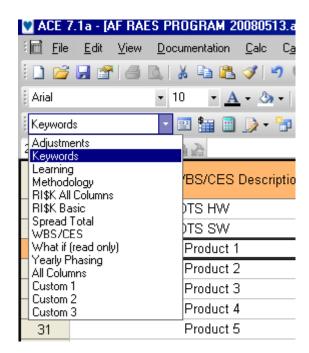
J2	i ipprositori nz				
53	Application #3	3600			
54	PMP SYSTEM (SUPT) SOFTWARE SUBSYS	3600	EMD	PMPSUPSW	
55	PMP INTEGR/ASSY/CHECKOUT	3600	EMD	PMPIAC	NCER5001
56	TRAINING		EMD	TRNG	
57	EQUIPMENT				



To access:

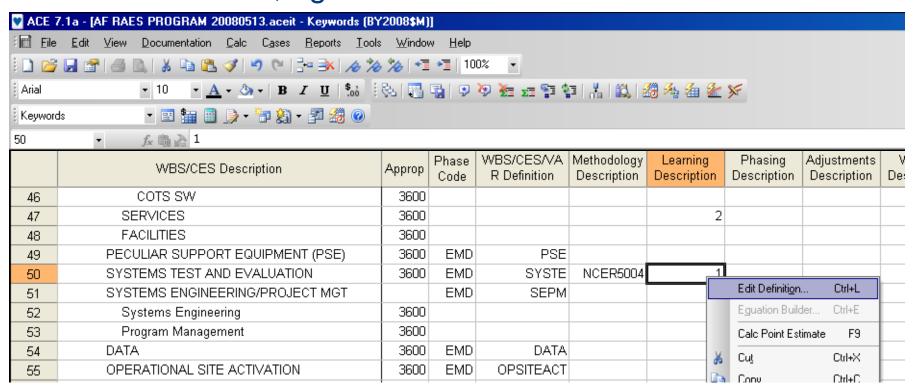
- View > Keywords, or
- Workscreen dropdown menu > Keywords





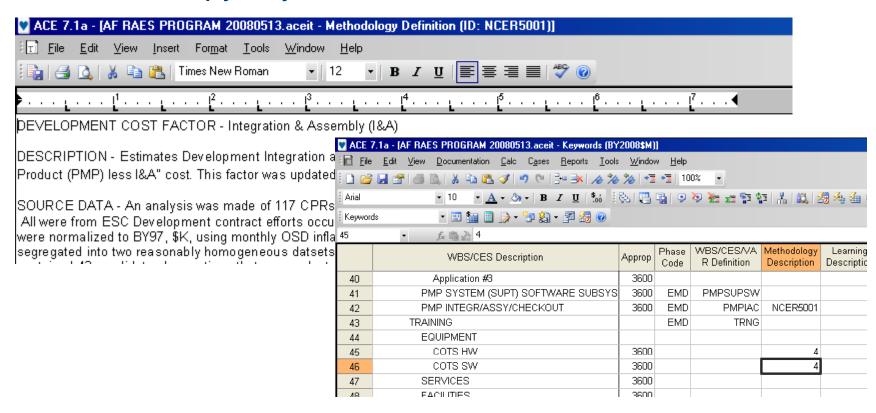


- Displays a keyword (number) for each block of text that is not automatically generated by the session
- To access text, right click on cell > Edit Definition





- After editing, make sure to Save
- To make same definition apply to multiple WBS/CES items, copy keyword



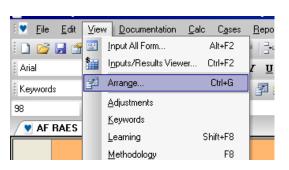


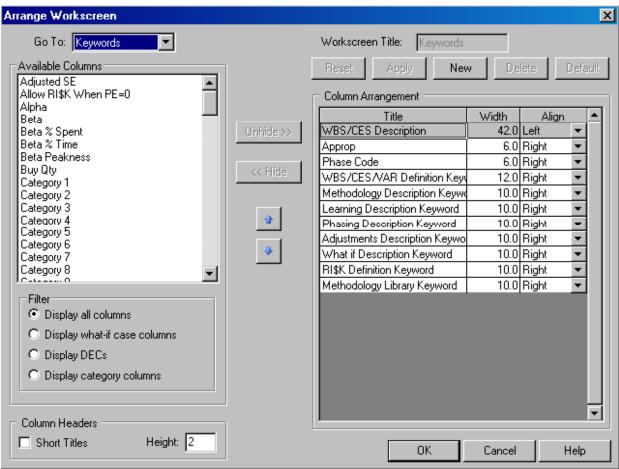
- 10 columns, plus the WBS/CES column:
 - Appropriation
 - Phase Code
 - WBS/CES/VAR Definition
 - Methodology Description
 - Learning Description
 - Phasing Description
 - Adjustments Description
 - What-if Description
 - RI\$K Description
 - Methodology Library



Customizing the Workscreen

View > Arrange - to shift columns and customize





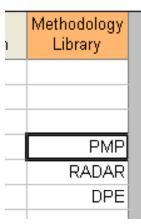


Methodology Library

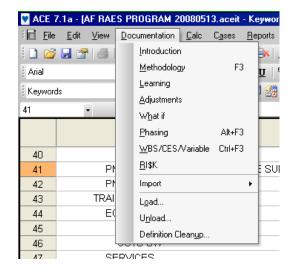
- Methodology Library Keyword:
 - Link WBS/CES item to particular methodologies in ACE

Methodology Library

- CERs
- Factors
- Model functions
- Keywords are system assigned
- Cannot edit these definitions







Documentation > Introduction

- Create or edit an introduction or overview of estimate
- You cannot enter an Introduction for each line of the estimate

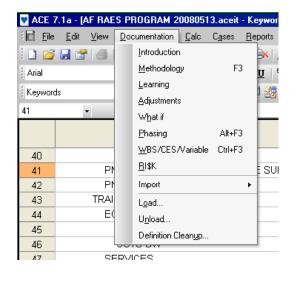
Documentation > Methodology

- Create or edit methodology definition associated with the active row
- If you copied or imported a CER from the ACE Libraries, or if you are using a CER you imported from CO\$TAT, a definition automatically displays

Documentation > Learning

- Create or edit learning curve adjustment definitions
- If you fit the learning curve with CO\$TAT, the CO\$TAT definition will display here





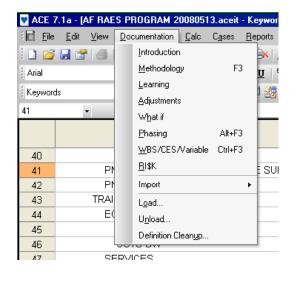
Documentation > Adjustments

 Create or edit the G&A, fee, overhead, escalation, and currency adjustment definitions associated with active row

Documentation > What-if

- Create or edit the What if or sensitivity case definition associated with active row
- Documentation > Phasing
 - Create or edit time phasing definition

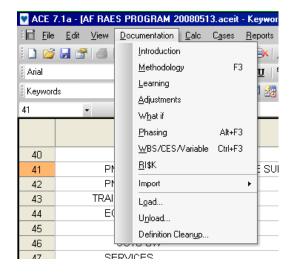




Documentation > WBS/CES/Variable

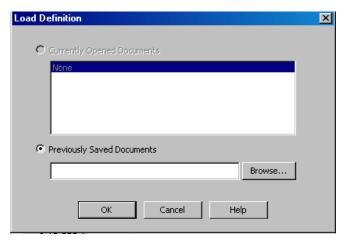
- Create or edit WBS or CES definitions
- Create or edit definition for the input or variable the active row represents
 - e.g. the active row estimates WEIGHT, which is a cost driver of the estimate
- Documentation > RI\$K
 - Create or edit documentation on RI\$K parameters



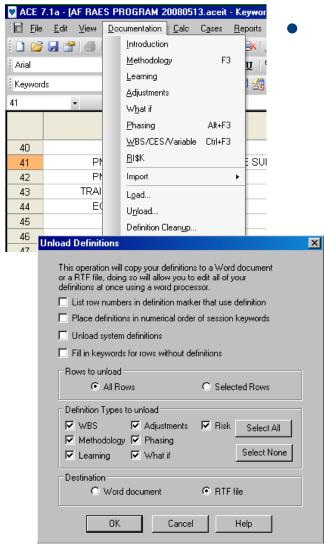


Documentation > Load

- Opens Load Definition Dialog
- Allows you to load or import ACE definitions from a rich text format or Word file that was created by unloading the definitions



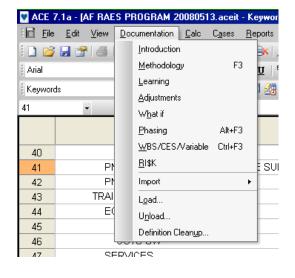




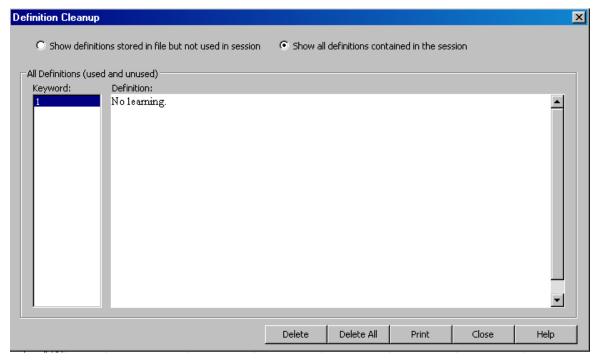
Documentation > Unload

- Opens Unload Definitions Dialog, which allows you to unload or export ACE definitions to a rich text format or Word Format
- Copies all definitions in session to a single file with a text string like <ACEIT-DEFINITION 3 on ROW 3> acting as separator between individual definitions
- When saved to computer, can be read and edited by most word processors
- Great way to edit all definition text at once
- Once edited, load these definitions back into ACE by clicking Documentation > Load





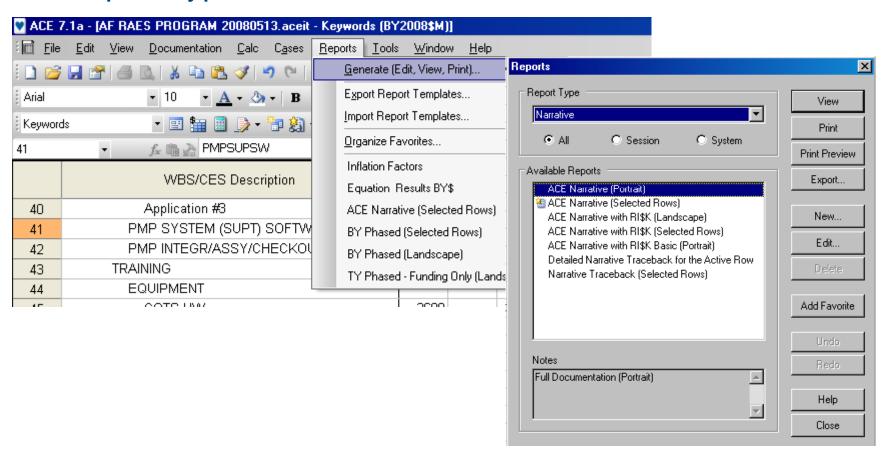
- Documentation > Definition Cleanup
 - Opens Definition Cleanup Dialog
 - Allows you to delete any unused definitions





Narrative Report

- Reports > Generate
- Report Type Narrative





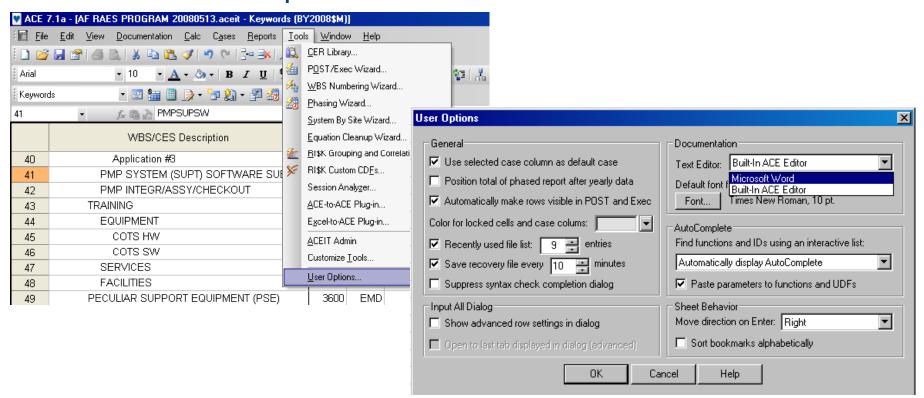
Narrative Report

- Allows you to print, view, or export your narrative text on a line-by-line basis
- You can select an existing narrative report format to view, export, print, add a new format, modify an existing format, or delete an existing format
- Copy text from the report using the Edit Copy command
- You cannot type into the viewer and change its contents or the ACE definition text
- To exit viewer: click on box in upper left corner of the viewer box, select close



Microsoft Word Editor

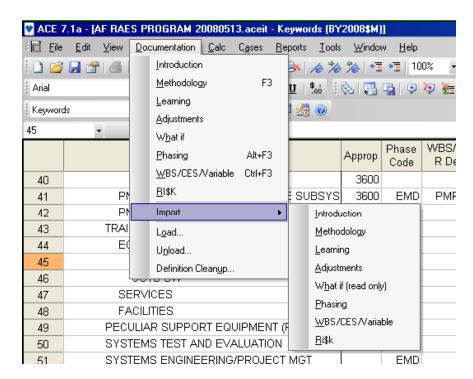
- Use Word as your definition editor and to generate narrative reports
- Tools > User Options





Microsoft Word Editor

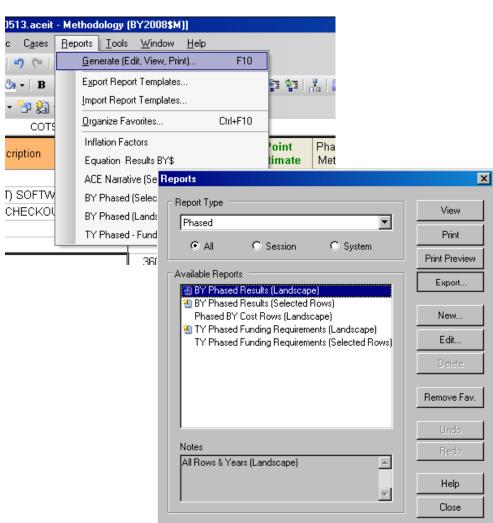
- Greater flexibility and more options when editing definitions or reports
- How it works:
 - When you create a new definition or edit an existing one, ACE opens Word
 - Create or edit the definition
 - Format text as desired
 - Return to ACE and import the new definition
 - Documentation > Import





Export Reports to Word or Excel

- Reports > Generate >
 Select desired report,
 click Export
- Specify a filename for the report
- All reports except narrative are TXT files; Narrative reports are RTF files
- TXT files can be imported into Excel and RTF files can be imported into Word





Lessons Learned

- Document all changes made from version to version of an estimate
- Find your preferred method of documentation and follow a format – be consistent
- Document AS YOU GO!!!



Questions?



Sources & Contact Info

- ACE 7.1a Help Menu
- ACEIT 7.0 User Guide
- Presentation, "The Power of ACEIT Reporting," ACEIT Users' Conference, 24 January 2007
- www.ACEIT.com
- Article, "Including Notes or Category columns in ACE Narrative Reports," www.ACEIT.com, article ID# 1247, 6 February 2008
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