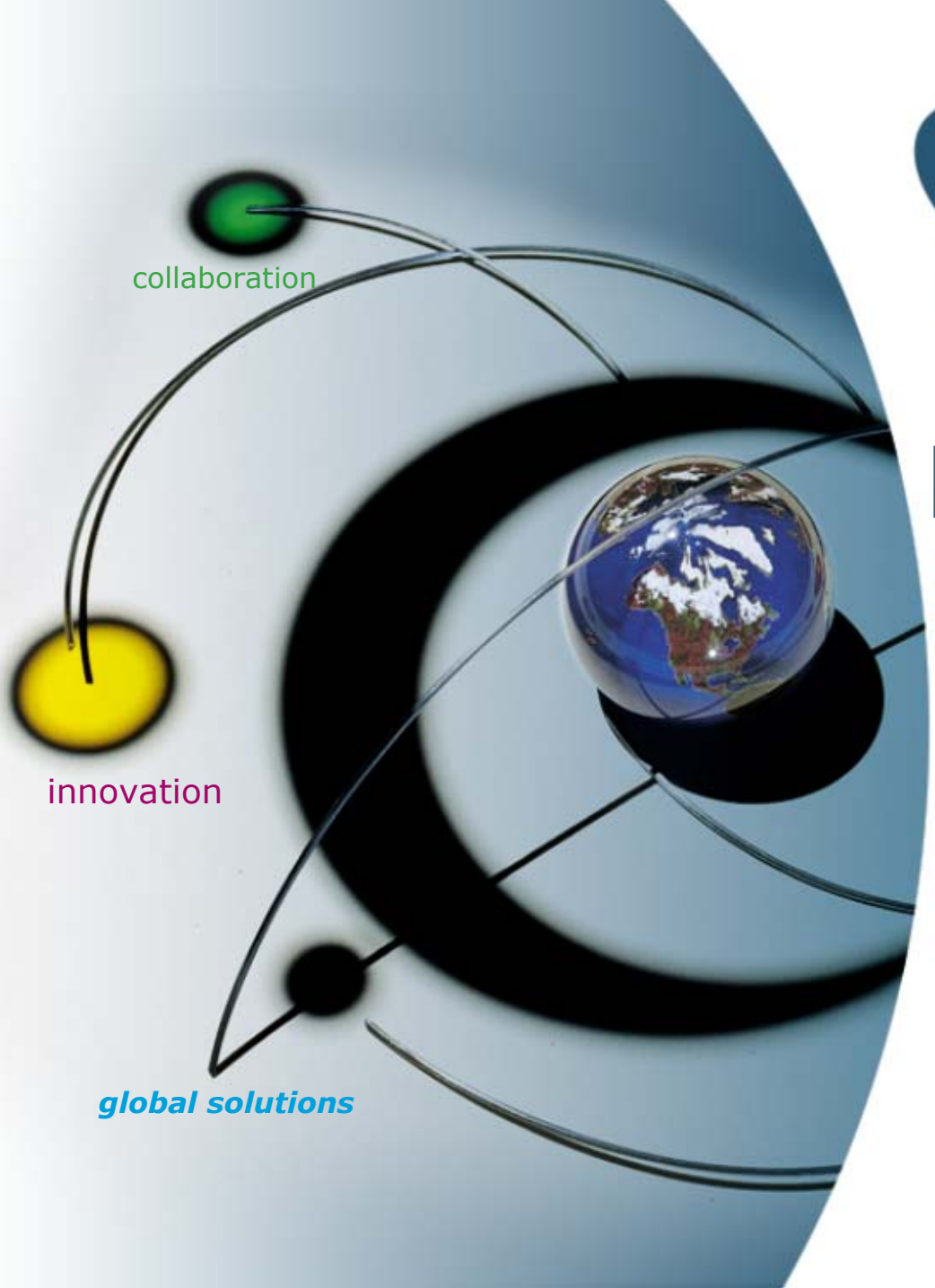

PTC®
Shaping Innovation

Pro/Process For Assemblies & Round Tutor

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PRO/PROCESS FOR ASSEMBLIES

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Pro/Process For Assemblies

- *You'll see how to quickly create a fully annotated assembly process plan by referencing, but never affecting, the original design assembly.*

- *You'll see how tools and fixtures can be added to the process plan data-base required for fabrication purposes without affecting the design BOM.*

The benefits of using Pro/PROCESS for ASSEMBLIES are:

- *ease-of-use*
- *speed*
- *associativity back to the design assembly*
- *ability to regroup design components independently from the design structure.*

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Pro/Process For Assemblies

Unlike traditional methods, Pro/PROCESS for ASSEMBLIES uses the information already available in the design assembly such as component placement and parameter information and automatically updates the process plan when this information changes.

Furthermore, the process plan and service documentation can be created concurrently while the design assembly is still being developed - as components are added to the design assembly, they can be added to the process plan. The benefit, again, shorter time to market.

NOTE: PRO/PROCESS FOR ASSEMBLIES ALLOWS FOR MULTIPLE EXPLOSION STATES VERSUS A SINGLE ONE W/OUT THIS MODULE.

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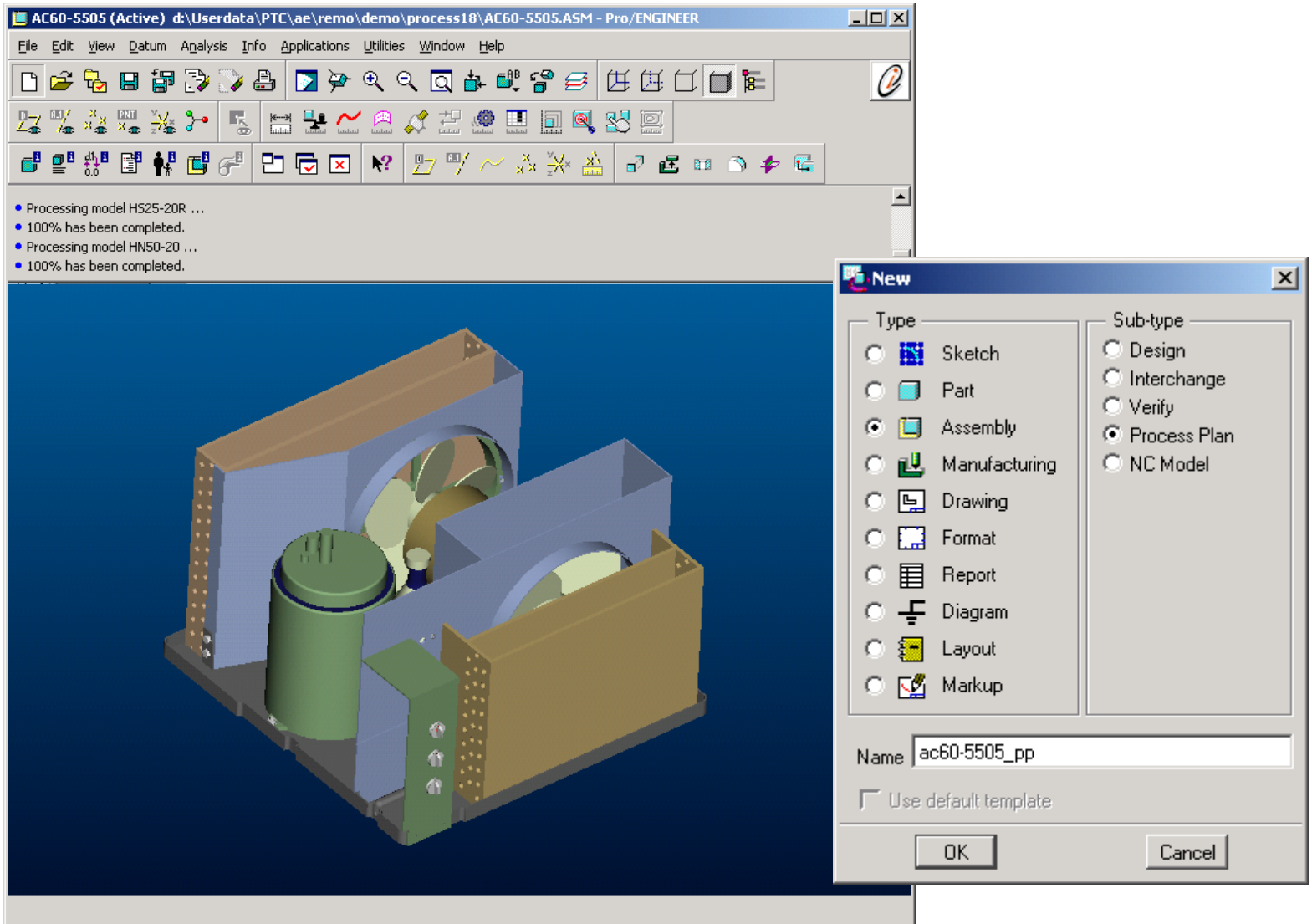
Creating a Process Plan

1. Please name the process plan accordingly **i.e. <assy>_pp**



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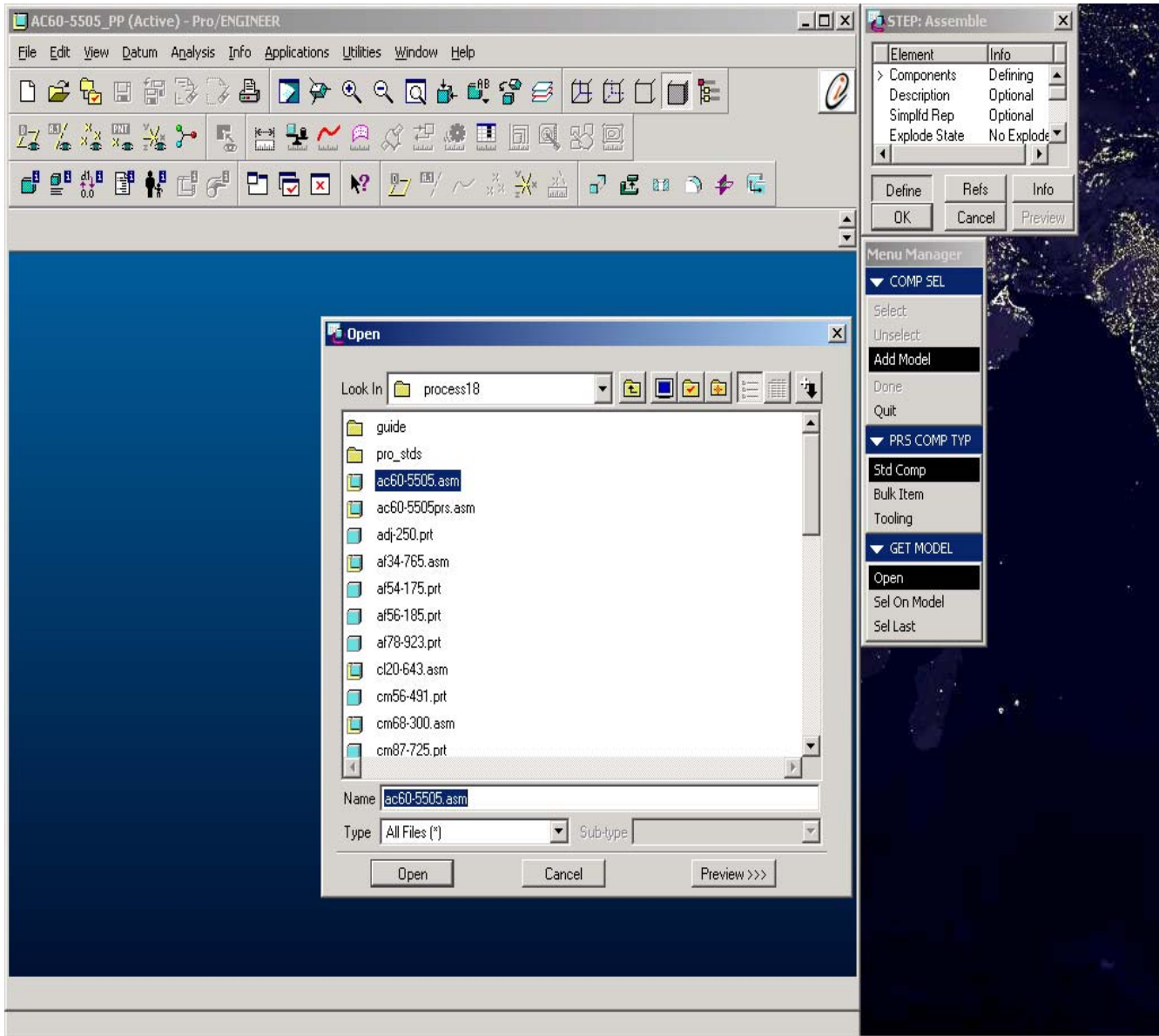
Creating a Process Plan

2.

3.



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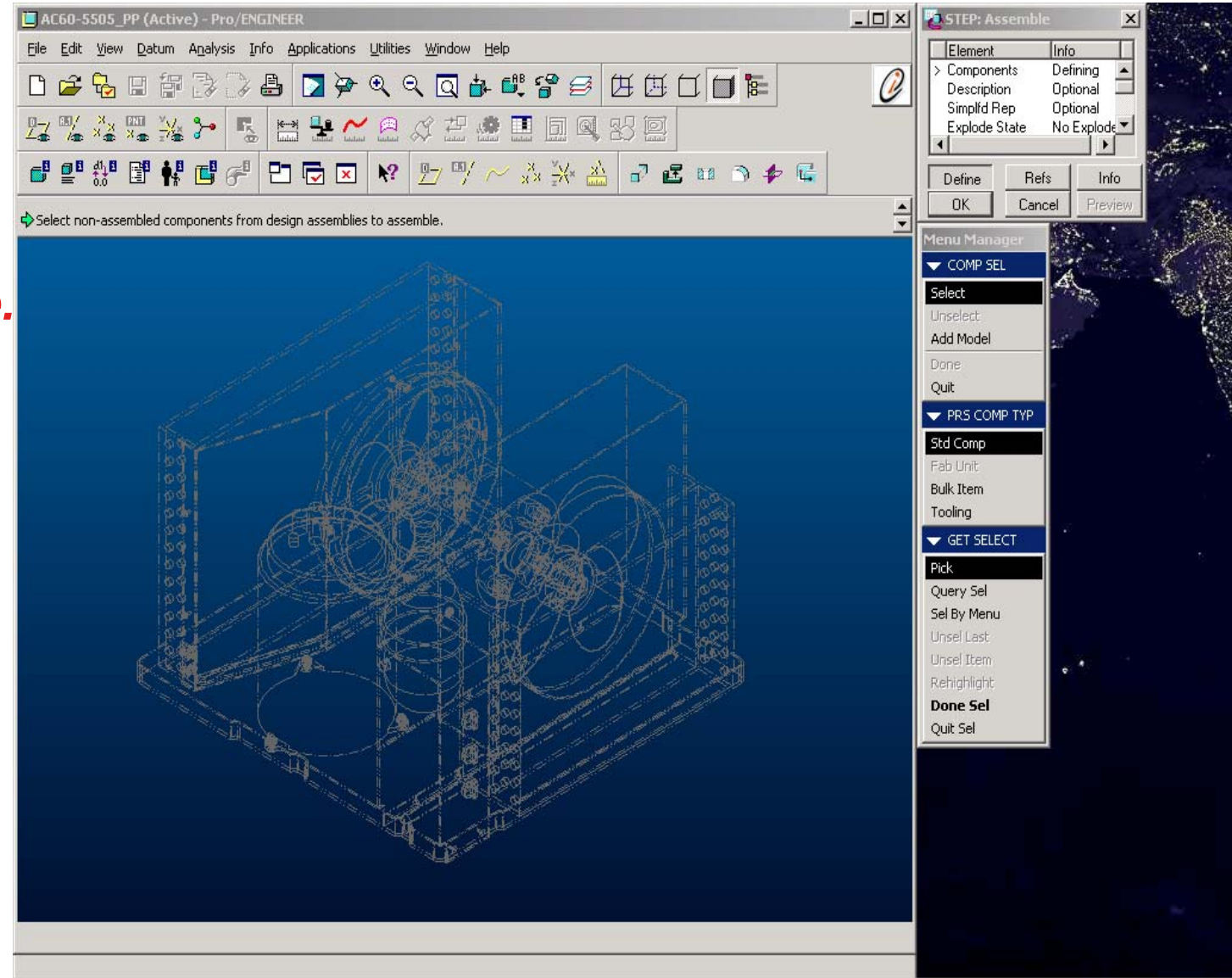
Creating a Process Plan

4. Your assembly will come in hidden-line. Now you may select the models you want to add to the first sequence.



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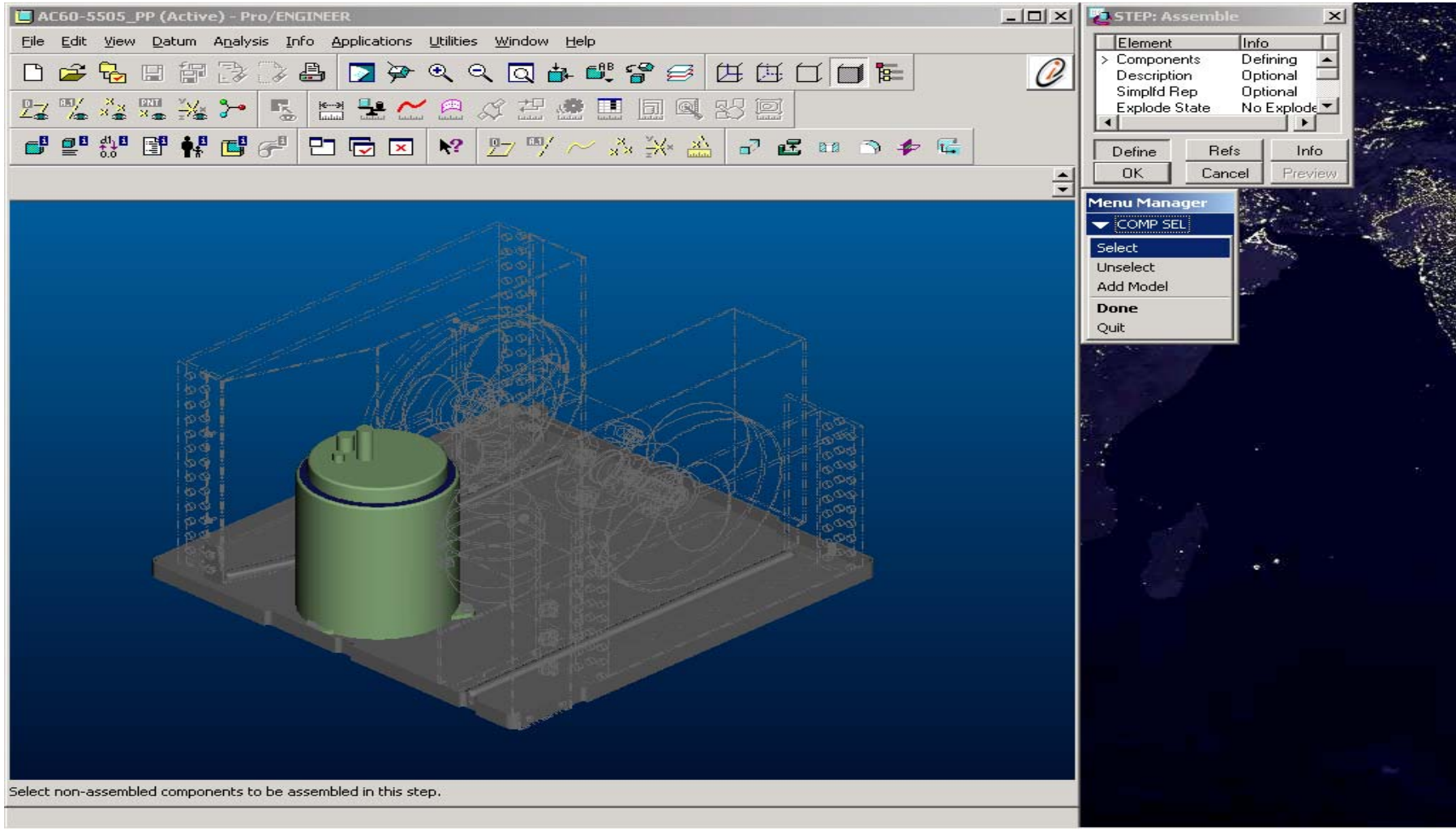
Creating a Process Plan



Your selected models will become shaded to graphically inform you of which models have/have not been added to an assembly sequence.

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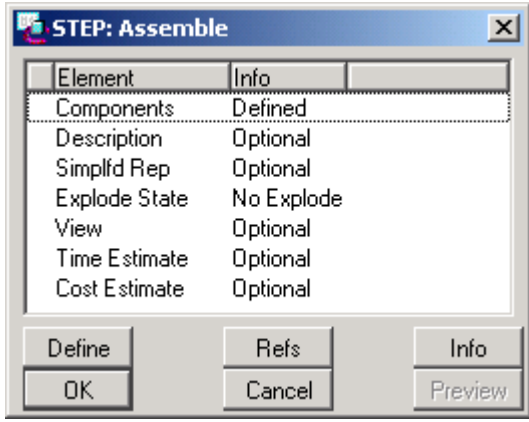
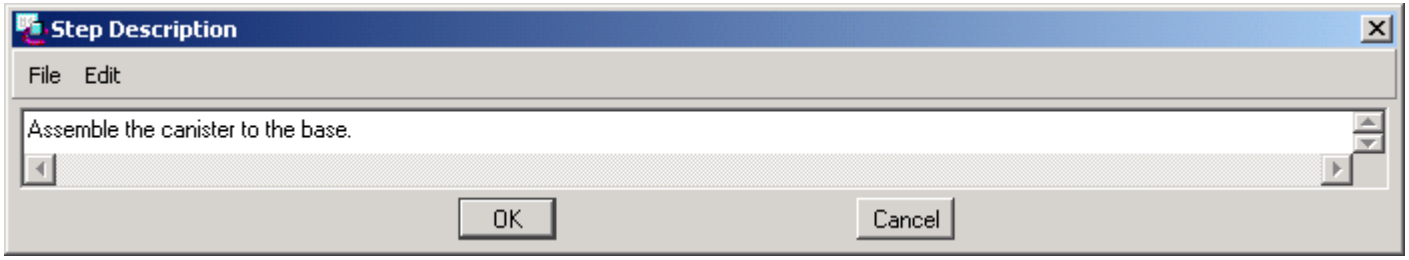
Creating a Process Plan

5. Once you hit → DONE then double-click any of the options to fill in these parameters in the dialogue box.



- **DESCRIPTION :** ***Input a one or two line sentence to describe this sequence***



- **SIMPLFD REP :** ***Create/select a pre-defined simplified representation if required***
- **EXPLODE STATE :** ***Create/select an explosion state***

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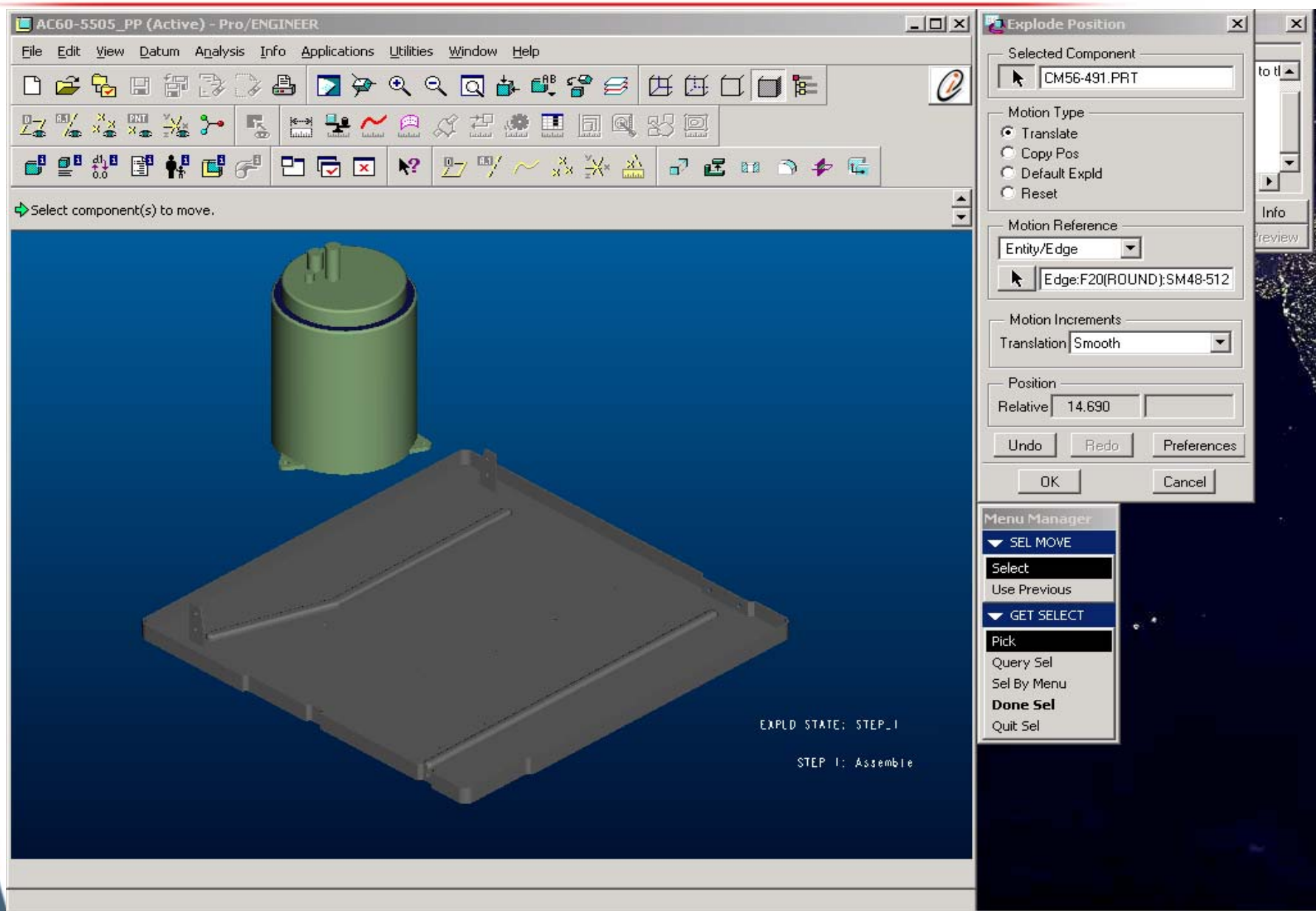
Explosion Position



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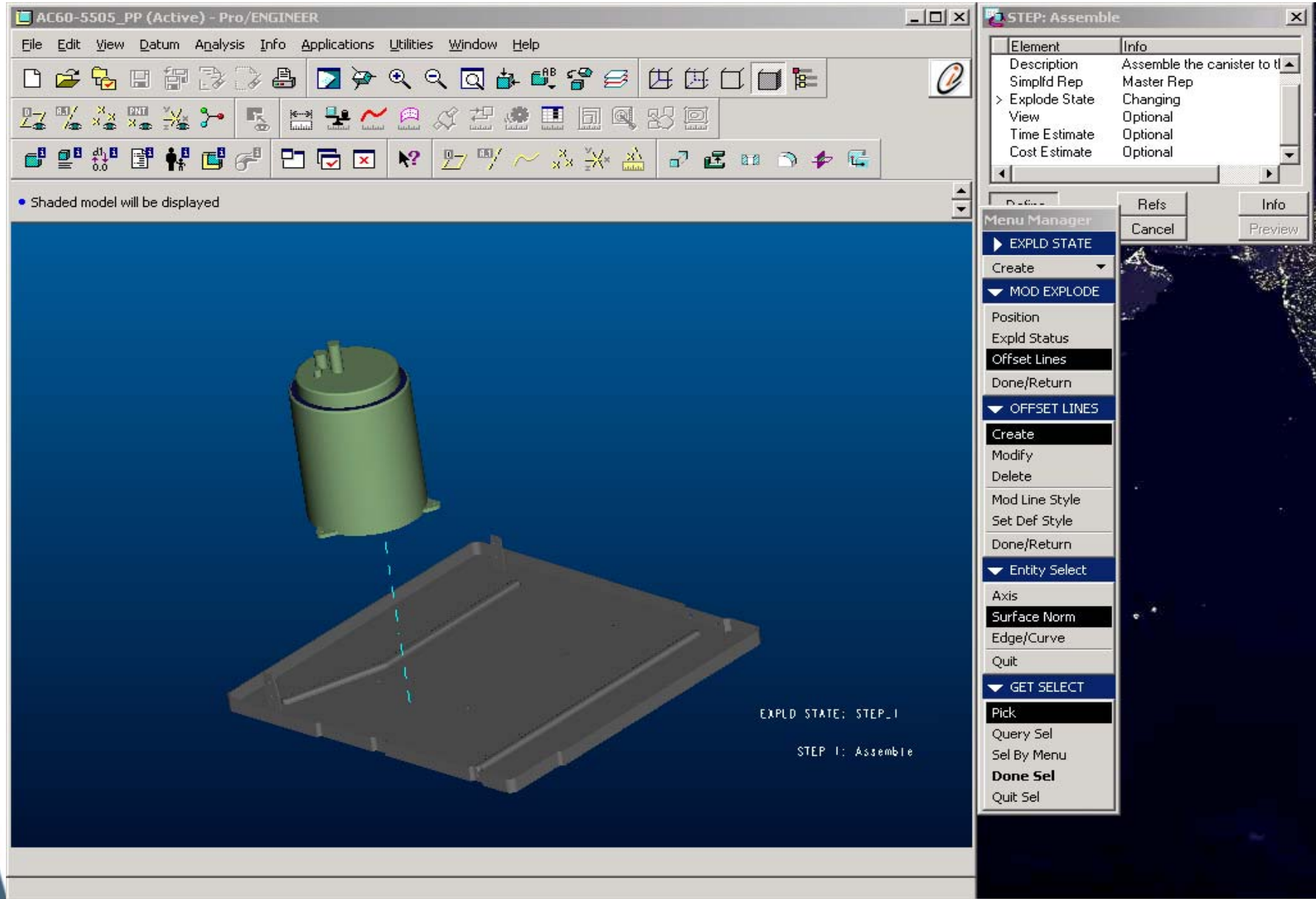
Explosion Offset Lines



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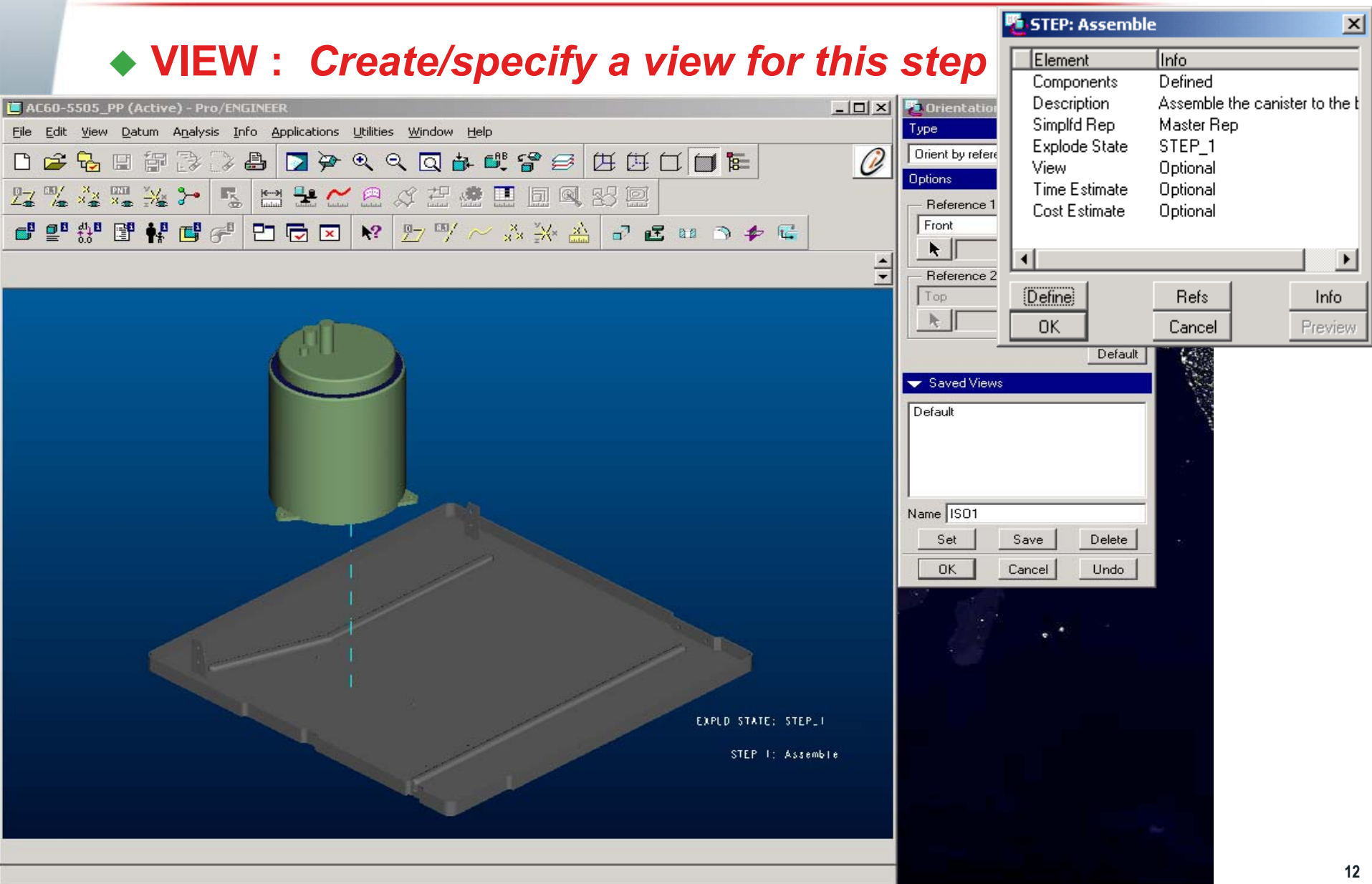
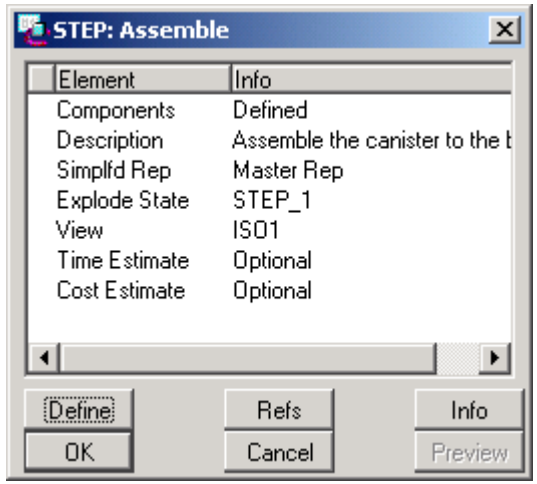
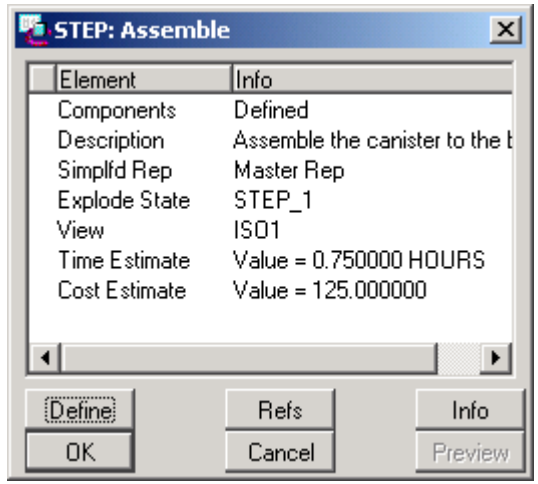
Creating a Process Plan

- **VIEW :** ***Create/specify a view for this step***



Creating a Process Plan





- **TIME ESTIMATE :** ***Enter a time estimate in hours if req'd***

- **COST ESTIMATE :** ***Enter a cost estimate if req'd***

Repeat/redefine creation of sequences as necessary …

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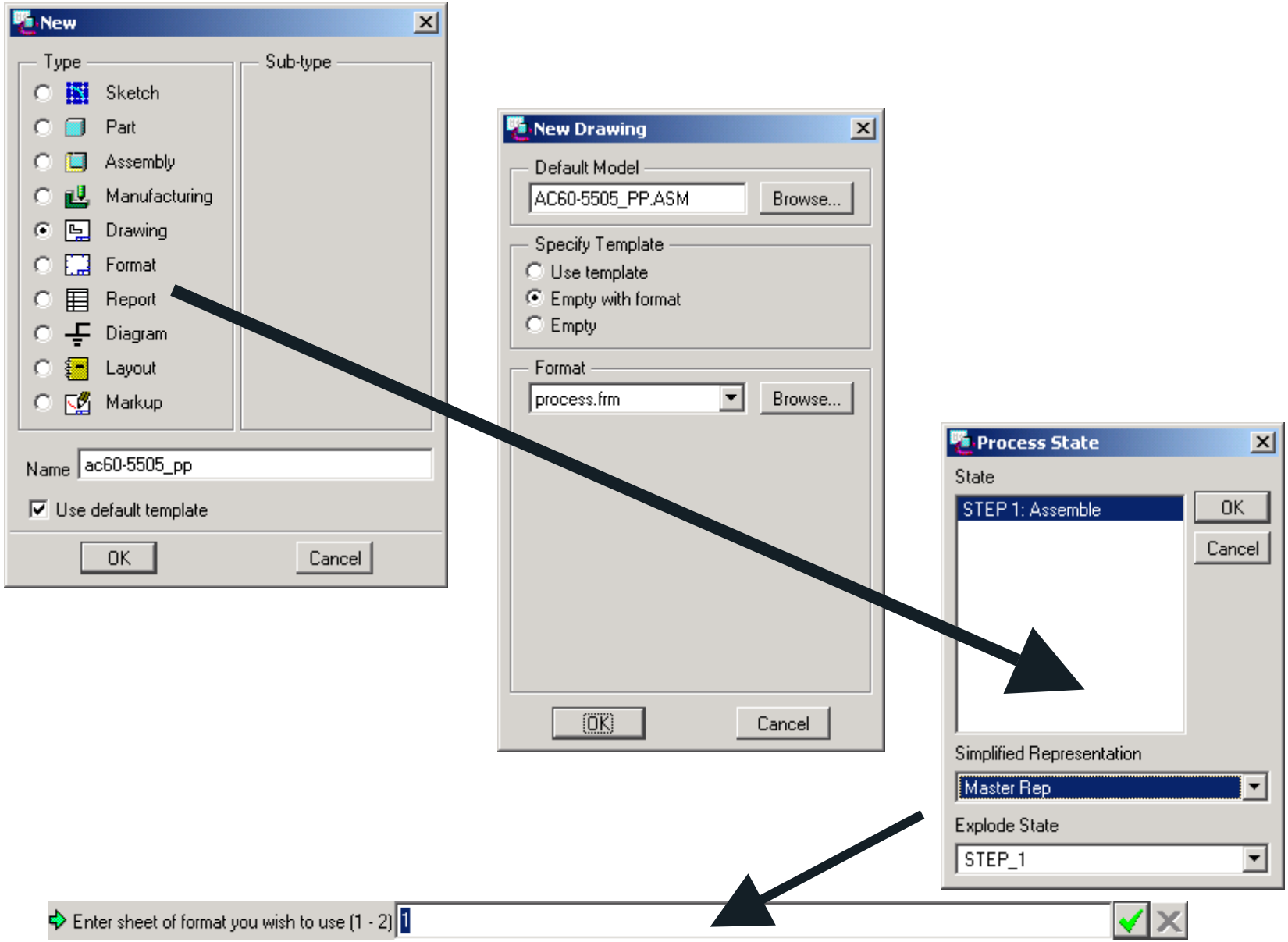
Creating a Process Plan Document

1.



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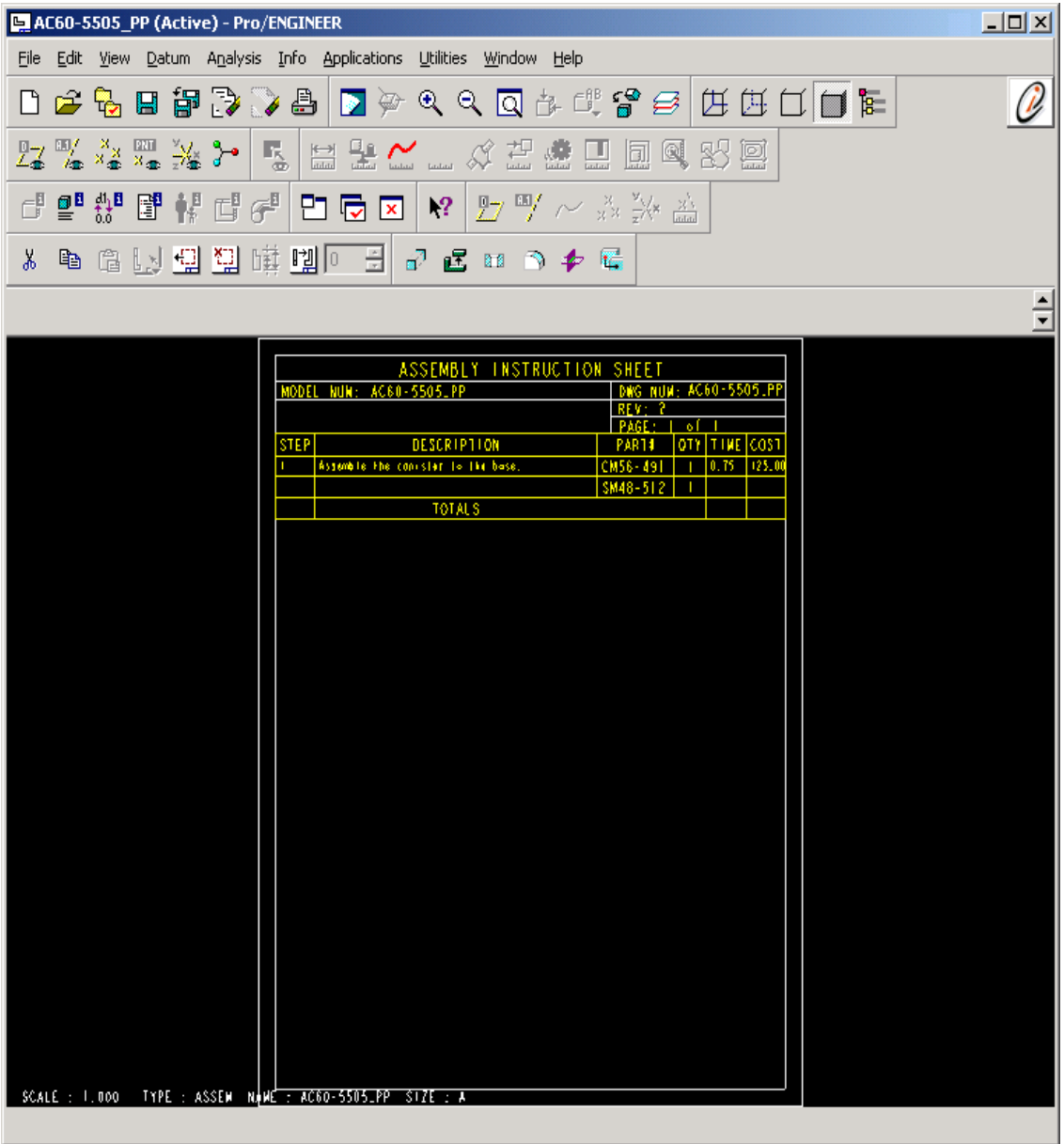
Creating a Process Plan Document



Automatically all information that you have specified earlier fills into the table.

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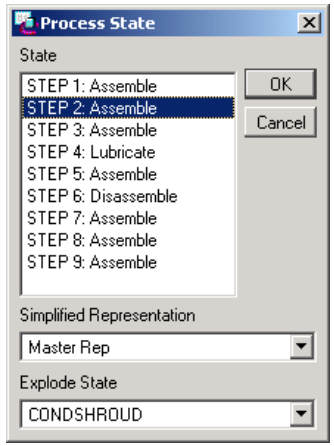
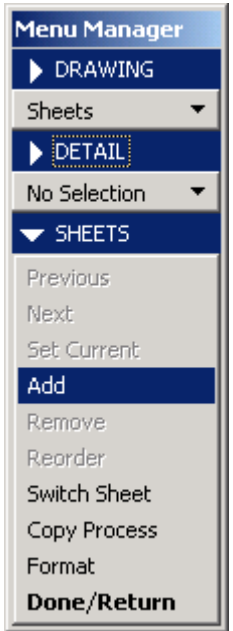
Creating a Process Plan Document

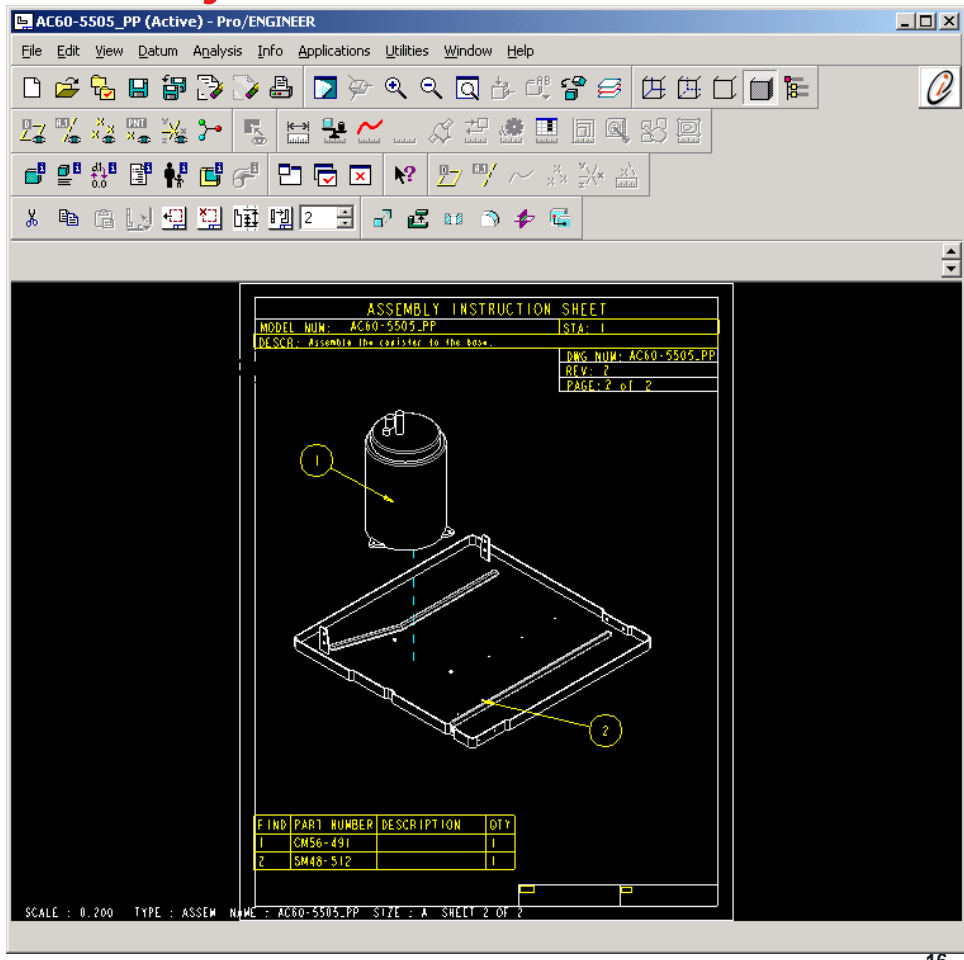
2. Specify the state that you would like to place onto the next sheet



3. Now add another sheet to place the steps …



4. Add your view & balloons …



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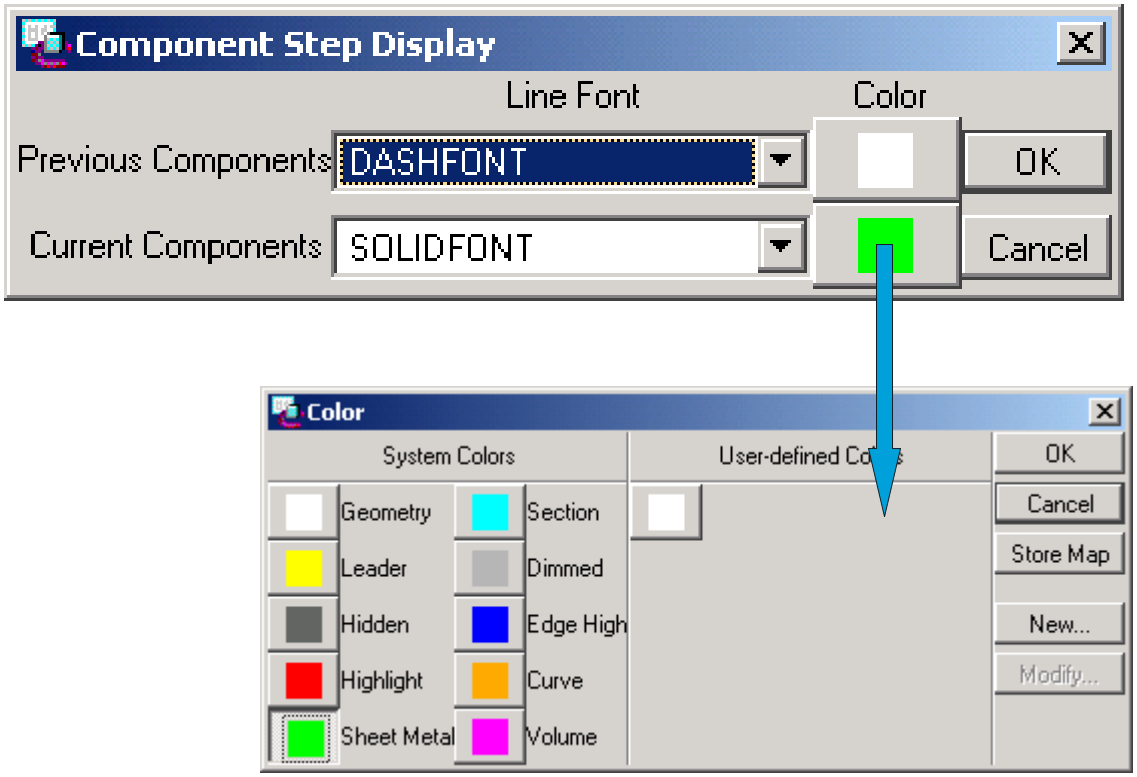
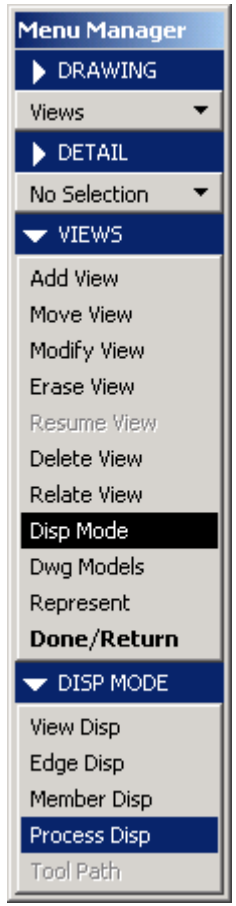
Creating a Process Plan Document

5. You also have the ability to modify the display of newly added components for your current state as well as how you wish to represent components that were already specified in previous steps.





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Creating a Process Plan Document

AC60-5505PRS (Active) d:\Userdata\PTC\ae\remo\demo\process18\AC60-5505PRS.DRW.2 - Pro/ENGINEER

File Edit View Datum Analysis Info Applications Utilities Window Help

- Processing model AC60-5505PRS ...
- Storing a drawing also stores all of its models.
- AC60-5505PRS has been saved.

ASSEMBLY INSTRUCTION SHEET

MODEL NUM: AC60-5505PRS STA: 2

DESCR: Assemble condenser shroud

DWG NUM: AC60-5505PRS
REV: 2
PAGE: 2 of 5

FIND	PART NUMBER	DESCRIPTION	QTY
1	HB25-10	hex_bolt	4
2	HN25-10	hex nut 25-20	4
3	HW25-15	washer	4
4	SH34-769	cond shroud	1
5	ST13-398	lon ring	1

120in-lbs
4 PLACES.

SCALE : 0.077 TYPE : ASSEM NAME : AC60-5505PRS SIZE : A SHEET 2 OF 5

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ROUND TUTOR

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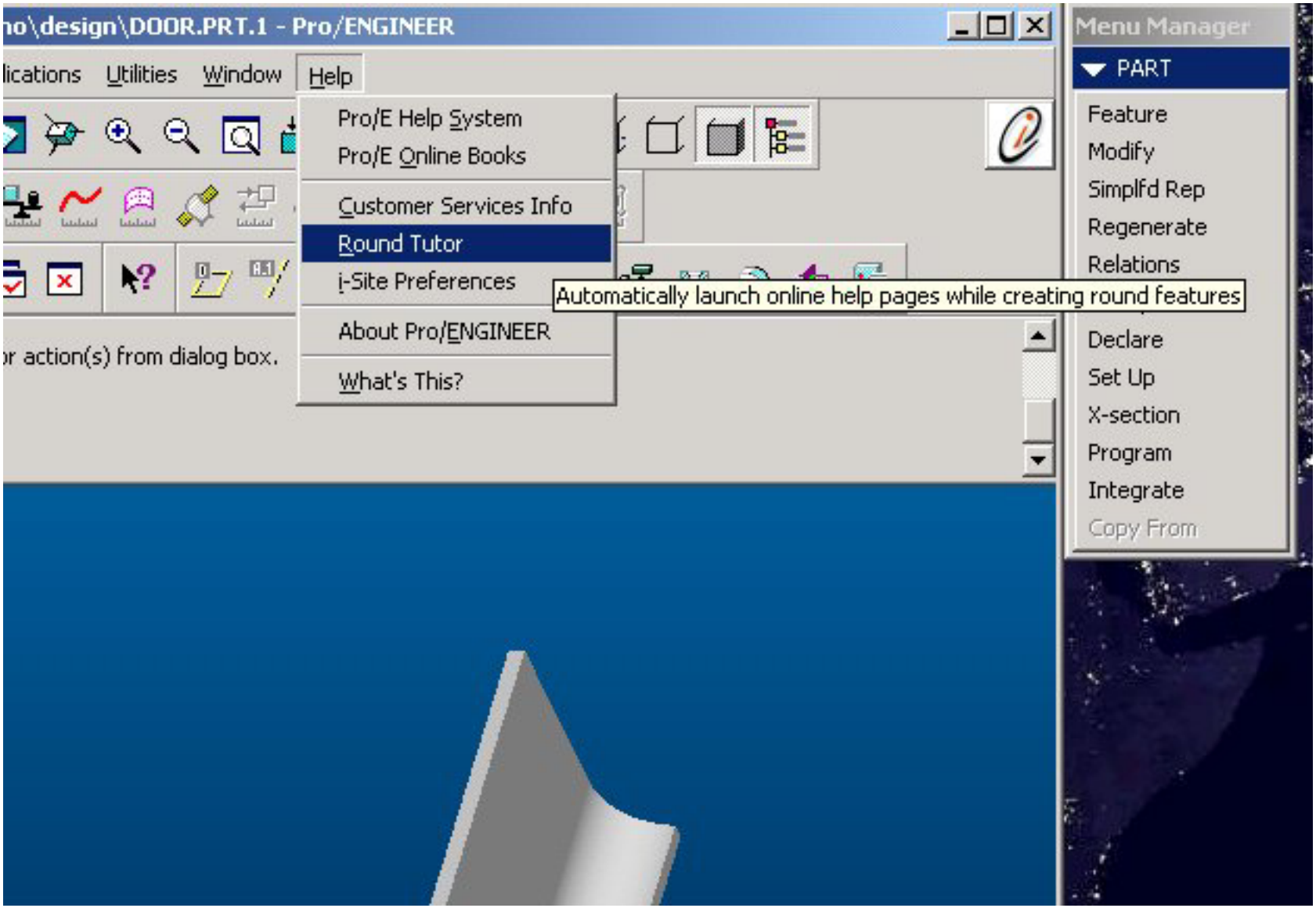
How to Activate The Round Tutor



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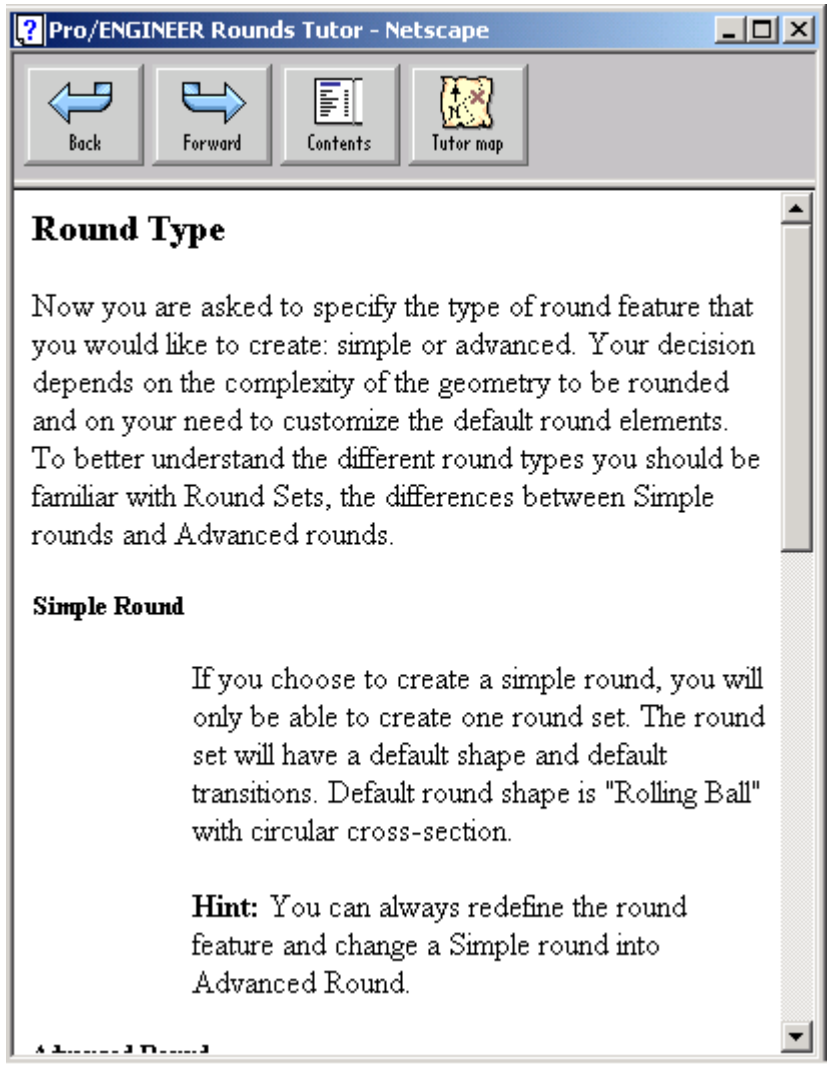
Create A Round …

Once you've enabled the "Round Tutor" then when you begin to create a round, an applet will fire up and guide you through the entire Round creation process.



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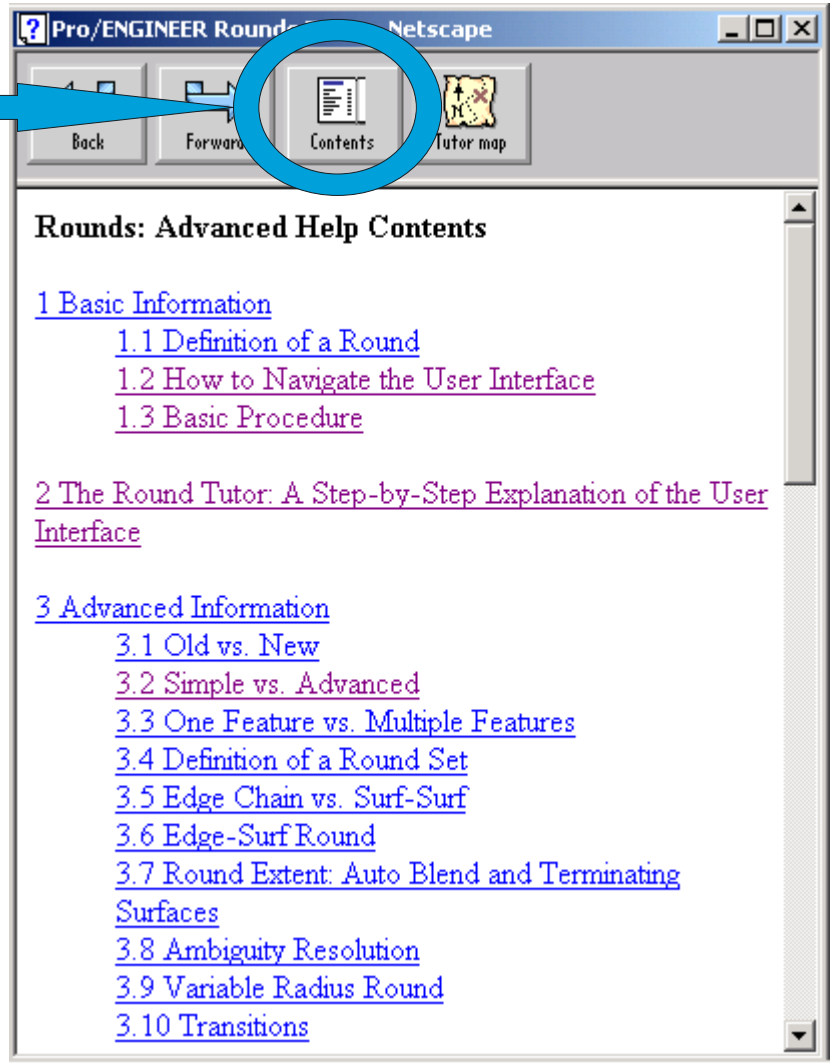
Round Tutor Contents

To see a listing of contents, activate the ***CONTENTS*** *icon.*

As you will notice, each line is a hyperlink to a document for that topic.



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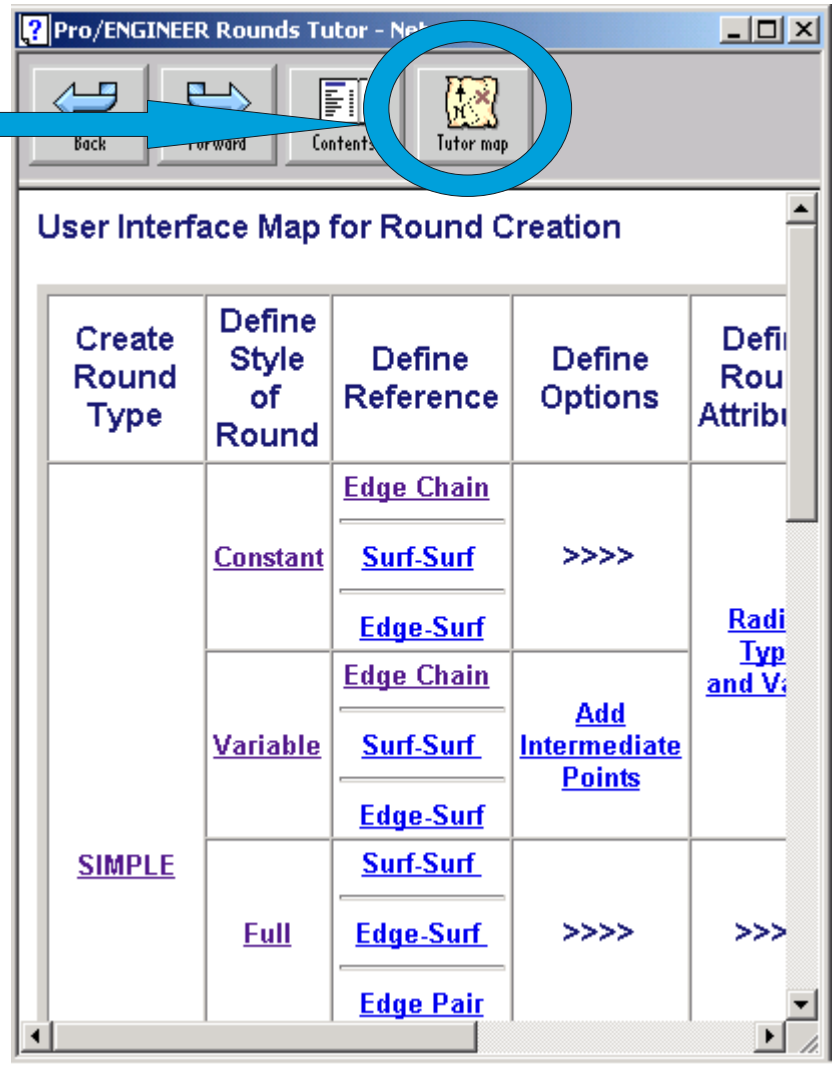
Tutor Map

To see a User Interface Map for Round Creation, activate the **TUTOR MAP** *icon.*

And also each step is a hyperlink w/ a more detailed description of that round type.

Refer to the next page for the entire Round Map.



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