

CiGi Technology Limited Consultants for Requirements and Systems Engineering

All Requirements are Equal

(But some are more equal than others)

Gordon Woods Requirements Consultant

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IBM DOORS User Group - 16th February 2011



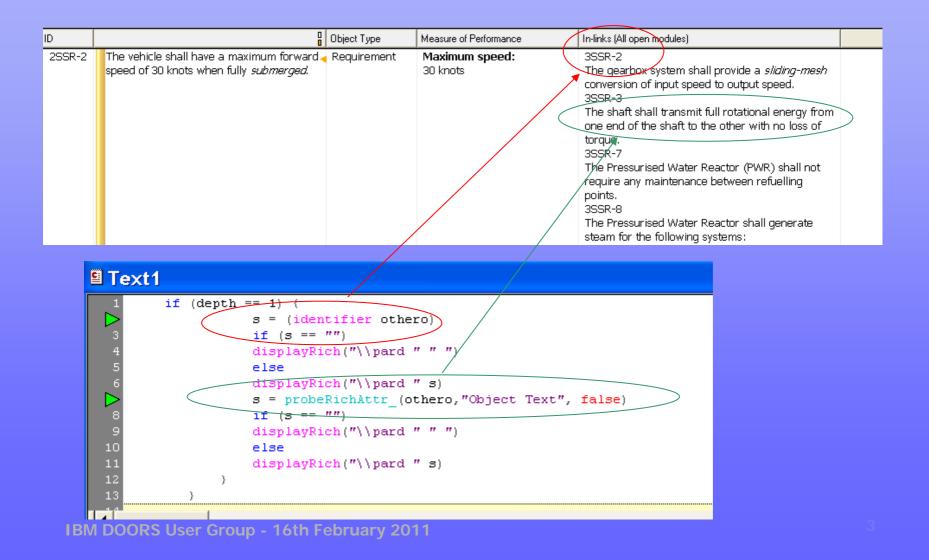
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All Requirements are Equal

Introduction
Traceability - Simple changes
Traceability - Advanced changes
Are all requirements equal?
Ship Spec Editor and Viewer
Conclusion



Simple Traceability using Wizard





Simple Traceability using Modified Wizard

ID	Dbject Type	Measure of Performance	Incoming Links
2SSR-2	The vehicle shall have a maximum forward Requirement speed of 30 knots when fully <i>submerged</i> .	Measure of Performance Maximum speed: 30 knots	3SSR-2 The gearbox system shall provide a <i>sliding-mesh</i> conversion of input speed to output speed. 3SSR-3 The shaft shall transmit full rotational energy from one end of the shaft to the other with no loss of torque. 3SSR-7
			The Pressurised Water Reactor (PWR) shall not require any maintenance between refuelling points. 3SSR-8 The Pressurised Water Reactor shall generate steam for the following systems:

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	s = (identifier othero)
3	if (s == "")
4	displayRich("\\pard " " ")
5	else
	displayRich("\\pard {\\b " s "}")
7	<pre>s = probeRichAttr_(othero,"Object Text", false)</pre>
8	if (s == "")
9	displayRich("\\pard " " ")
10	else
11	displayRich("\\pard " s)
12	}
13	}
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Traceability - Common DXL Attributes

Text1

4

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	orward declarations							
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9 void	l displayOutLinks	(Module,	Object,	string,	string,	string)
) void	l displayInLinks	(Object,	string,	string,	string)	
1 <mark>voi</mark> c	displayGuardedInLinks	(Object,	string,	string,	string,	string,	string)
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7 <mark>voi</mark> c	displayDCAPicturesInVG	(Module,	Object,	string)		
3 <mark>voi</mark> c	displayExternalOutLinks	(Object)				
9 <mark>voi</mark> 0	displayTraceabilityFromTestSchedule	(Object,	string)			
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4 void	displayCrossMatrix	(Module,	Object,	string,	string,	string)
5		-		_ ,			-	-



Problem 1

There is too much data to see on a single DOORS view.

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ID		Object Type	Overall Rationale	Measure of Performance	Ship Spec part 3	Remarks	Link 🔼
2SSR-2	The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	Requirement	Propulsion is provided by a Pressurised Water Reactor (PWR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw.	Maximum speed: 30 knots	 35SR-2 The gearbox system shall provide a <i>sliding-mesh</i> conversion of input speed to output speed. 35SR-3 The shaft shall transmit full rotational energy from one end of the shaft to the other with no loss of torque. 3SSR-7 The Pressurised Water Reactor (PWR) shall not require any maintenance between refuelling points. 3SSR-8 The Pressurised Water Reactor shall generate steam for the following systems: Propulsion turbine Captains shower Ironing cubicle And yes this is very bad example for a requirement as it has bullet points rather than individual statements but it illustrates the bullet points. 3SSR-9 The shaft bearings shall be lubricated by oil. 3SSR-12 The Propellor system shall provide forward motion 3SSR-13 The Propellor system shall provide backwards motion 	Higher speed obtained by a Y shaped hull.	Not ma prit fun
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Problem 2

- There is too much data to see on a single DOORS view.
- The order is very important but DOORS links are always presented in numerical order of Target ID.

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ID		Dbject Type	Overall Rationale	Measure of Performance	Ship Spec part 3	Remarks	Link 🛆
2SSR-2	The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	 Requirement 	Propulsion is provided by a Pressurised Water Reactor (PWR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw.	Maximum speed: 30 knots 4 1 2 5 6	3SSR-2 The gearbox system shall provide a sliding- mesh conversion of input speed to output speed. 3SSR-3 The shaft shall transmit full rotational energy from one end of the shaft to the other with no loss of torque. 3SSR-7 The Pressurised Water Reactor (PWR) shall not require any maintenance between refuelling points. 3SSR-8 The Pressurised Water Reactor shall generate steam for the following systems: • Propulsion turbine • Captains shower • Ironing cubicle And yes this is very bad example for a requirement as it has bullet points rather than individual statements but it illustrates the bullet points. 3SSR-9 The shaft bearings shall be lubricated by oil. 3SSR-12 The Propellor system shall provide forward motion 3SSR-13 The Propellor system shall provide backwards motion	Higher speed obtained by a Y shaped hull.	Not ma prir fun
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Problem 3

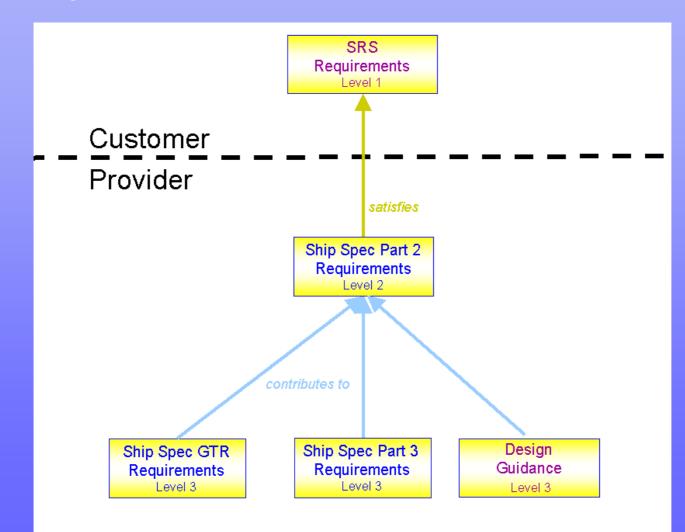
- There is too much data to see on a single DOORS view.
- The order is very important but DOORS links are always presented in numerical order of Target ID.
- Some systems are used by more than one capability and have different importance within each capability.

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ID			Object Type	Overall Rationale	Measure of Performance	Ship Spec part 3	Remarks	Link 📤
2SSR-2		have a maximum ahead s when fully <i>submerged</i> .	Requirement	Propulsion is provided by a Pressurised Water Reactor (PWR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw.	Maximum speed: 30 knots	 3SSR-2 The gearbox system shall provide a <i>sliding-mesh</i> conversion of input speed to output speed. 3SSR-3 The shaft shall transmit full rotational energy from one end of the shaft to the other with no loss of torque. 3SSR-7 The Pressurised Water Reactor (PWR) shall not require any maintenance between refuelling points. 3SSR-8 The Pressurised Water Reactor shall generate steam for the following systems: Ironing cubicle And yes this is very bad example for a requirement as it has bullet points rather than individual statements but it illustrates the bullet points. 3SSR-9 The shaft bearings thill be ub id sted by oil SSR 12 The negation system shall provide forward motion 3SSR-13 The Propellor system shall provide backwards motion 	Higher speed obtained by a Y shaped hull.	Not ma prit fun
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Simplified Data Model



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Ship Spec Link Editor

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	Lint 🔥
ID Object Type Overall Rationale Measure of Performance Ship Spec part 3 Remarks	
 2SSR-2 The vehicle shall have a maximum shead Requirement Presurised Water Reactor (WR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw. 30 knots 30 knots When fully submerged. 30 knots when fully submerged. 30 knots 30 knots 30 knots when fully submerged. 30 knots <th>d by a Not ma prir fun</th>	d by a Not ma prir fun
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Ship Spec Rationale Editor (v2.7) - DOORS

BAE SYSTEMS

This utility is used to edit the Part 3 Requirements and link to the Part 2 requirements of the FSM Ship Specification.

 Part 2 Requirement 	Beneficient	Develo
ID Jacob a		Remarks
2SSR-2	The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	Higher speed obtained by a Y shaped hull.
Type		
Requirement	Measure of Performance	Overall Rationale
	Maximum speed:	Propulsion is provided by a Pressurised Water Reactor(PWR) generating 45 MW of steam,
Edit Rationale	30 knots	geared turbine, shaft and seven bladed screw.
Part 3 Primary Requireme		Part 3 Secondary Requirements
Linked ID	Requirement	Linked ID Requirement
اً ڪي 3SSR-8 ڪ 3SSR-2	The gearbox system shall provide a <i>sliding-mesh</i> conversion of input speed to	🗟 3SSR-9
3SSR-2	output speed.	🥶 3SSR-7
355R-11	Measure of Performance	Measure of Performance
2355R-3 2355R-12		
🛃 3SSR-13	Minimum Input Speed:	
	Maximum Input Speed:	
	700 revolutions per minute	
	Add New Link Remove Link Primary to Secondary Edit	Add New Link Remove Link Secondary to Primary Edit
Primary Link Rationale		
1		
	Revert Class	
Dest 2 Maturity		
 Part 2 Maturity Linking Issues 		Maturity Status:
	I maintenance should be a primary or secondary function.	○ Not Started ③ Draft ○ SE Agreed ○ DM Approved ○ Client Endorsed ○ Not Applicable
n vociourie in englite Ul	mantenance should be a primary or secondary function.	
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-	he Part 3 Requirements and link to the Part 2 requirements of the FSM Ship Specification.	
Part 2 Requirement	Requirement	Remarks
2SSR-2 Type Requirement	The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	Higher speed obtained by a Y shaped hull.
Jucquiement	Measure of Performance	Overall Rationale
Edit Rationale	Maximum speed: 30 knots	Propulsion is provided by a Pressurised Water Reactor(PWR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw.
Part 3 Primary Requiremer	s - ordered	Part 3 Secondary Requirements
Linked ID	s - ordered Requirement	Linked ID Requirement
2558-8 3558-2 23558-11	The gearbox system shall provide a <i>sliding-mesh</i> conversion of input speed to output speed.	≥ 3SSR-9 ≥ 3SSR-7
📄 3SSR-3	Measure of Performance	Measure of Performance
i 3SSR-12 i 3SSR-13 i 3SSR-13 i 3SSR-13 i 13 i	Minimum Input Speed: 600 revolutions per minute Maximum Input Speed: 700 revolutions per minute	
	Add New Link Remove Link Primary to Secondary Edit	Add New Link Remove Link Secondary to Primary Edit
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Linking Issues	an international destances and an enternation of the strength	Maturity Status:
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P		
	he Part 3 Requirements and link to the Part 2 requirements of the FSM Ship Specification.	
Part 2 Requirement ID	Requirement	Remarks
2SSR-2 Type Requirement	The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	Higher speed obtained by a Y shaped hull.
Inequiement	Measure of Performance	Overall Rationale
	Maximum speed: 30 knots	Propulsion is provided by a Pressurised Water Reactor(PWR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw.
Edit Rationale		
∼ Part 3 Primary Requirement		Part 3 Secondary Requirements
Linked ID	Requirement	Linked ID Requirement
률 3SSR-8 률 3SSR-2 률 3SSR-11	The gearbox system shall include safety interlocks such that motion in the reverse direction cannot be <i>commanded</i> when the output speed from the gearbox is greater than 10 RPM, unless the current month has an R in it and the \checkmark	2007 355R-9 1
20 355R-3 20 355R-12	Measure of Performance	Measure of Performance
jigg 335R-13	MOP 1: MOP 2: MOP3:	
1 1	Add New Link Remove Link Primary to Secondary Edit	Add New Link Remove Link Secondary to Primary Edit
Primary Link Rationale	_	
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Not sure if engine oil	maintenance should be a primary or secondary function.	○ Not Started ⊙ Draft ○ SE Agreed ○ DM Approved ○ Client Endorsed ○ Not Applicable
		Update Draft
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	ne Part 3 Requirements and link to the Part 2 requirements of the FSM Ship Specification.	
Part 2 Requirement ID	Requirement	Remarks
2SSR-2 Type Requirement	The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	Higher speed obtained by a Y shaped hull.
J	Measure of Performance	Overall Rationale
Edit Rationale	Maximum speed: 30 knots	Propulsion is provided by a Pressurised Water Reactor(PWR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw.
Part 3 Primary Requirement		Part 3 Secondary Requirements
	Requirement The shaft shall transmit full rotational energy from one end of the shaft to the other	Linked ID Requirement
교 3SSR-8 교 3SSR-2 고 3SSR-11	with no loss of torque.	≥ 3SSR-9 ≥ 3SSR-7
🛃 3SSR-3	Measure of Performance	Measure of Performance
355R-12 355R-13	Maximum Acceptable Torque Loss: 1 N m Add New Link Remove Link Primary to Secondary Edit	Add New Link Remove Link Secondary to Primary Edit
Primary Link Rationale	Revert Clear	
Part 2 Maturity		
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Ship Spec Rationale Editor (v2.7) - DOORS

BAE SYSTEMS

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This utility is used to edit t	he Part 3 Requirements and link to the Part 2 requirements of the FSM Ship Specification.	
Part 2 Requirement		
ID	Requirement	Remarks
2SSR-2	The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	Higher speed obtained by a Y shaped hull.
Туре		
Requirement	Measure of Performance	0 verall Rationale
	Maximum speed:	Propulsion is provided by a Pressurised Water Reactor (PWR) generating 45 MW of steam,
	30 knots	geared turbine, shaft and seven bladed screw.
Edit Rationale		
Part 3 Primary Requirement		Part 3 Secondary Requirements
Linked ID	Requirement	Linked ID Requirement
🛁 3SSR-8	The shaft shall transmit full rotational energy from one end of the shaft to the	235SR-9
🥪 3SSR-2 🥪 3SSR-11	other with no loss of torque.	🚽 🗟 3SSR-7
😂 3SSR-3	Measure of Performance	Measure of Performance
🛃 3SSR-12	Maximum Acceptable Torque Loss:	
🧟 3SSR-13	1 N m	
† ↓ Ҭ	Add New Link Remove Link Primary to Secondary Update Cancel	Add New Link Remove Link Secondary to Primary
Primary Link Rationale		
	tating shaft or hydraulic transfer system.	
	Revert Clear	
Part 2 Maturity		
Linking Issues		Maturity Status:
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This utility is used to edit the Part 3 Requirements and link to the Part 2 requirements of the FSM Ship Specification.						
Part 2 Requirement						
ID 2SSR-2	Requirement 7	Remarks				
,	Ship Spec Rationale Editor - Part 3 Tree View - DOORS					
Type Requirement	Adding Primary links from the Ship Spec part 3 to the part 2.					
Inclancing	Part 3 Requirements					
Edit Rationale	Transmit Propulsion Energy The shaft shall transmit full rotational energy from one end of the shaft to the other with no lo The shaft shall transmit full rotational energy from one end of the shaft to the other with no lo The shaft shall transmit full rotational energy from one end of the shaft to the other with no lo The shaft shall transmit full rotational energy from one end of the shaft to the other with no lo The shaft shall transmit full rotational energy from one end of the shaft to the other with no lo The gearbox system shall provide a sliding-mesh conversion of input speed to output speed. The gearbox system shall include safety interlocks such that motion in the reverse direction of a 3 Nuclear Power System The Pressurised Water Reactor (PWR) shall not require any maintenance between refuelling	Requirement The Propellor system shall be thrust vectored.	erating 45 MW of steam,			
	The Pressurised Water Reactor shall generate steam for the following systems: III Propulsion I	Maximum Thrust Angle:				
Part 3 Primary Requiremen	😑 🧰 4 Propellor — The Propellor system shall provide ahead motion.	45 degrees to hull centre line				
Linked ID	The Propellor system shall be thrust vectored.	Bationale				
Linked ID SSR-8 SSR-2 SSR-11 SSSR-3 SSR-12 SSSR-13 Primary Link Rationale	The Propellor system shall provide astern motion.	Rationale Add as a Link Clear Selected Links 3SSR-11 selected for linking Save Cancel	ary Edit			
Dest 2 Maturity						
 Part 2 Maturity Linking Issues 		Maturity Status:				
Not sure if engine oil maintenance should be a primary or secondary function. Not Started Image: Draft						
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Summary of Editor Features

Presents more data than st**Problem 1** Solved
 Can order the links Problem 2 Solved
 Primary and Secondary link**Problem 3 Solved** Other:

Works in any edit mode Only permits editing on what should be edited Enforces data model

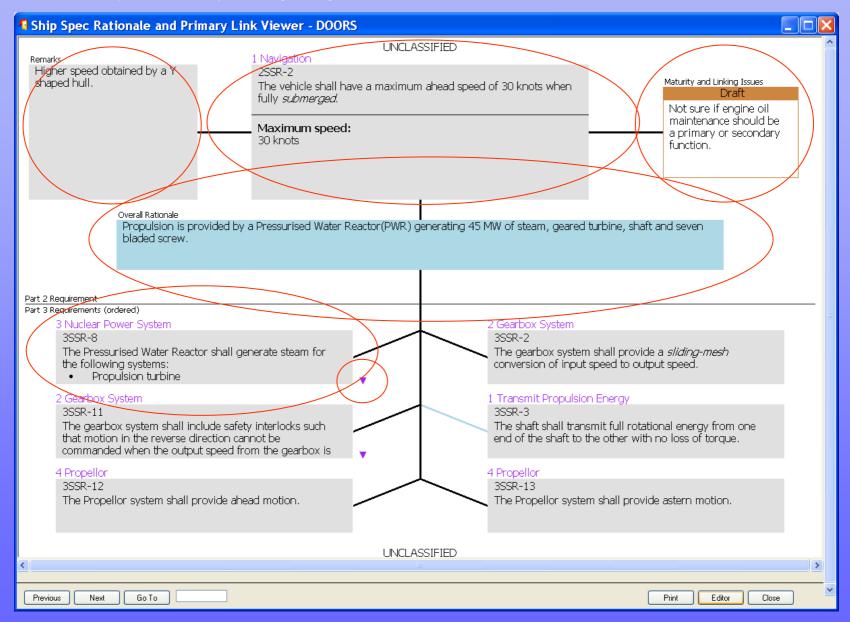


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Ship Spec Rationale Editor (v2.7) - DOORS

BAE SYSTEMS

		SUPARINES	
This utility is used to edit t	he Part 3 Requirements and link to the Part 2 requirements of the FSM Ship Specification.		
Part 2 Requirement	Deniment	Remarks	
2SSR-2 Type	Requirement The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> .	Higher speed obtained by a Y shaped hull.	
Requirement	Harris (D. Garris)		
	Measure of Performance		_
Edit Bationale	Maximum speed: 30 knots	Propulsion is provided by a Pressurised Water Reactor(PWR) generating 45 MW of steam, geared turbine, shaft and seven bladed screw.	
Part 3 Primary Requiremen	nts - ordered	Part 3 Secondary Requirements	
Linked ID	Requirement	Linked ID Requirement	
😅 3SSR-8 SSSR-2	The gearbox system shall provide a <i>sliding-mesh</i> conversion of input speed to output speed.	SSR-9 SSSR-7	
🥪 3SSR-11 🥪 3SSR-3	Measure of Performance	Measure of Performance	
열 355H-13	Minimum Input Speed: Image: Comparison of the system 600 revolutions per minute Image: Comparison of the system 700 revolutions per minute Image: Comparison of the system		
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Ship Spec Rationale and Primary Link	Viewer - DOORS				
Ship Spec Rationale Definition Requirement text for 3SSR-8 The Pressurised Water Reactor shall generate steam for the following systems: Propulsion turbine Captains shower Troning cubicle And yes this is very bad example for a requirement as it has bullet points rather than individual statements but it illustrates the bullet points.	UNCLASSIFIED Navigation 2SSR-2 The vehicle shall have a maximum ahead speed of 30 knots when fully <i>submerged</i> . Maximum speed: 30 knots Pressurised Water Reactor(PWR) generating 45 MW of steam, geared	Maturity and Linking Issues Draft Not sure if engine oil maintenance should be a primary or secondary function.			
Part 2 Requirement Part 3 Requirements (ordered) 3 Nuclear Power System 3SSR-8 The Pressurised Water Reactor shall gene the following systems: Propulsion turbine 2 Gearbox System 3SSR-11 The gearbox system shall include safety i that motion in the reverse direction cannot commanded when the output speed from 4 Propellor 3SSR-12 The Propellor system shall provide ahead	nterlocks such of the gearbox is A Propellor 3SSR-13	nsmit full rotational energy from one the other with no loss of torque. em shall provide astern motion.			
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Ship Spec Rationale and Primary Link Viewer - DOORS					
Measure of Performance for Part 3 355R-8 Dutput steam: pressure of 30 KPa at a temperature of 200 degrees centigrade. Close Part 2 Requirement	UNCLASSIFIED 1 Navigation 2SSR-2 The vehicle shall have a maximum ahead speed of 30 knots whe fully <i>submerged</i> . Maximum speed: 30 knots Pressurised Water Reactor(PWR) generating 45 MW of steam, ge	Not sure if engine oil maintenance should be a primary or secondary function.			
Part 3 Requirements (ordered) 3 Nuclear Power System 3SSR-8 The Pressurised Water Reactor shall gen the following systems: • Propulsion turbine 2 Gearbox System 3SSR-11 The gearbox system shall include safety that motion in the reverse direction can commanded when the output speed from 4 Propellor 3SSR-12 The Propellor system shall provide ahea	interlocks such not be m the gearbox is 4 Propellor 3SSR-13	ystem shall provide a <i>sliding-mesh</i> nput speed to output speed. Julsion Energy transmit full rotational energy from one ft to the other with no loss of torque.			
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A Ship Spec Rationale and Primary Link Viewer - DOORS	
A Ship Spec Rationale Invigation UNCLASSIFIED Unixing Rationale for Part 2(253R-2) The vehicle shall have a maximum ahead speed of 30 knots when UNCLASSIFIED Invigation SysR-2 The vehicle shall have a maximum ahead speed of 30 knots when Invigation Invin	il be
3SSR-12 The Propellor system shall provide ahead motion. The Propellor system shall provide astern motion.	
UNCLASSIFIED	>
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Summary of Viewer Features

Presents more targeted data than editor Only Primary links Will handle bullet points, bold, italic and strikethru Other: No edit functionality Automatic synchronisation with editor Print function Scroll bars Great for reviews



All Requirements are Equal

You <u>can</u> prioritise contributing requirements
You <u>can</u> order contributing requirements
You <u>can</u> show relationships that involve more context than the existing DOORS basic functionality



... so some can be more equal than others

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