SEQUENCES

COMPANY SHARED

Sequences

References

- Kongsberg K-Chief 700 Integrated Control System Product Description, 304844/B

- Kongsberg K-Chief 700 Operator Manual, 332618/B
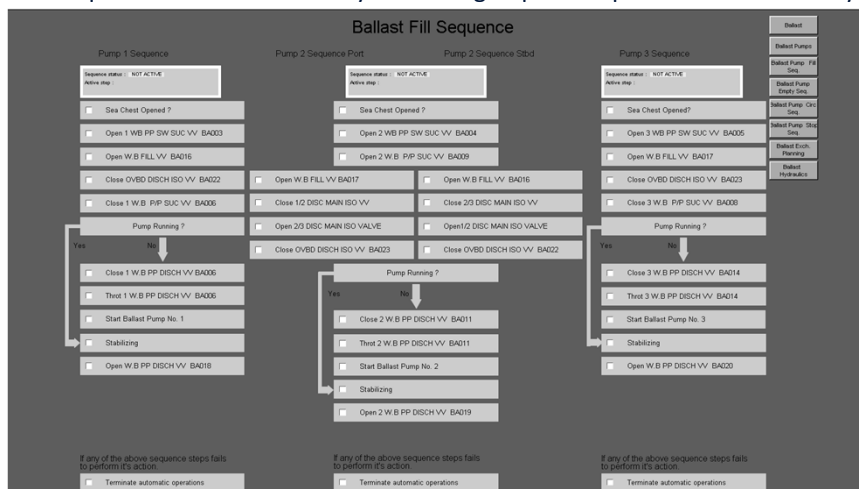
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Content

- Recognize sequences
- Describe a sequence
- Different modules used in sequences
- Sequence modules functionality
- Seqstep and Seqrecipe modules
- Operator menu for the Sequence Administrator
- Operate the sequence

Sequences

- Sequence is a controlled way of running a specific operation automatically

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Sequence Image

- It is possible to put the Sequence Administration and sequence steps in a sequence Image, where the operator can follow the sequence

Sequence Image

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Sequence Image

Sequence Administrator

- The symbol shows the sequence progress

- The colour of the border will display status:

Active: Green
Completed: White
On hold: Yellow
In error: Red

Sequence status :   ACTIVE
Active step :   Open W.B FILL VV BA017
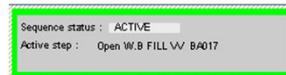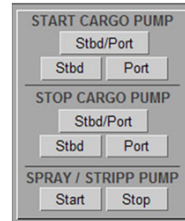
- The name of the active step is indicated

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The Sequence Administrator operation

- The sequence is operated from the operator menu

- A sequence can be started from external buttons

Sequence administrator Operator menu

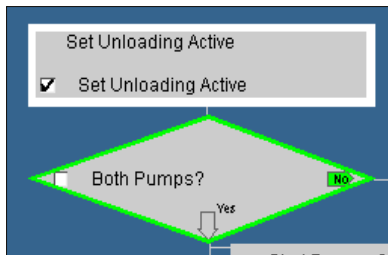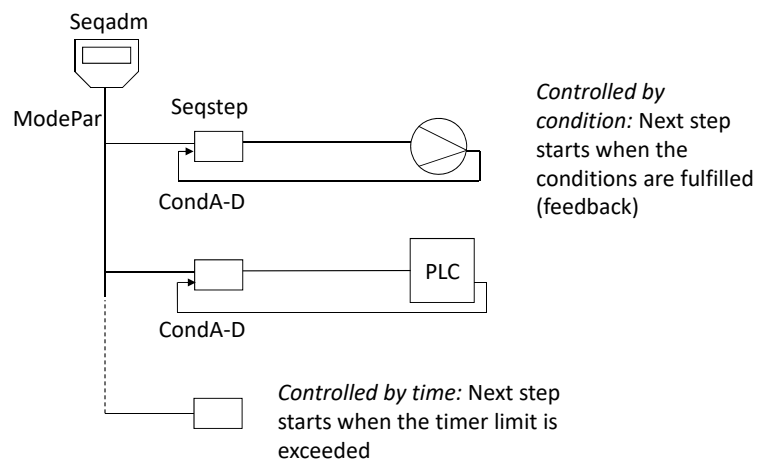| Terminate	Stops the sequence
Start	Starts the sequence from the beginning
Hold	Freeze the sequence at the active step
Continue	Continue the sequence after a hold command
Force Next	Force the module to start the next step
Set jump ID	Jump to the specified step
Jump	Jump to the step ID specified from the button above
Internal	Toggles Internal/External mode

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The sequence step (Seqstep) module

- For each operation in a sequence, called a sequence step, there will be a Seqstep module

- The Seqstep module executes an action when activated
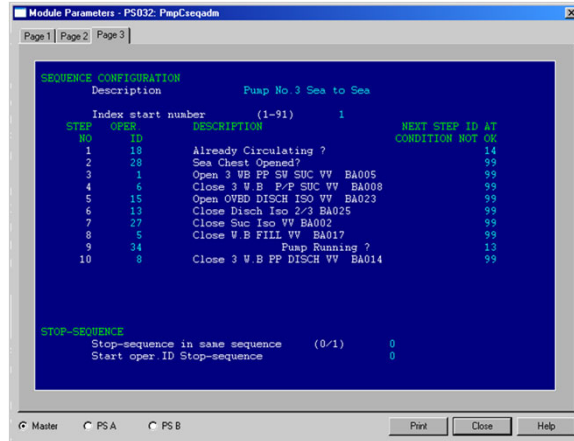

Connection Seqadm-Seqstep

Controlled by condition: Next step starts when the conditions are fulfilled (feedback)

Controlled by time: Next step starts when the timer limit is exceeded
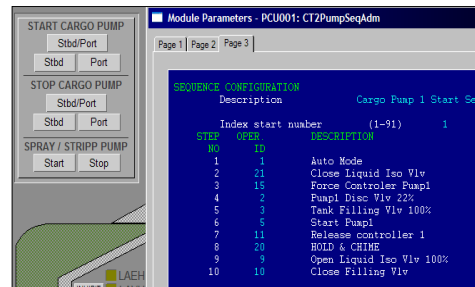
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The sequence recipe (Seqrecip) module

- A sequence is executed by use of a recipe
- Each Seqrecipe module contains one recipe

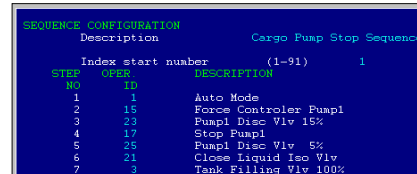
The sequence recipe (Seqrecip) module

- Selecting a sequence start button sets the correct sequence configuration in the Seqadm module

- Stop sequence has another step setup

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Slide 15

Connection seqadm-seqstep-secrecip

Seqrecip

NO	ID
1	3
2	12
3	5
4	7
5	10
6	1
7	9

RecipePar

Seqadm

Seqstep

CondA-D

RecipePar

RecipePar

CondA-D

PLC

Slide 16
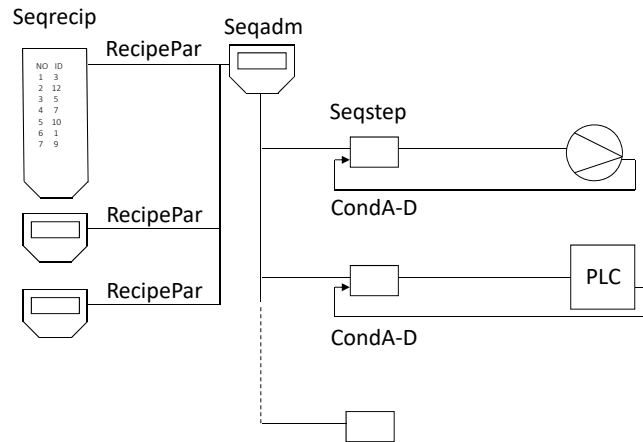
Exercises:

- Sequences

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Learning Objectives

- Recognize sequences
- Describe a sequence
- Identify the different modules used in sequences
- Be able to interpret the sequence modules functionality
- Explain how Sequence Administrator utilizes the Seqstep and Seqrecipe modules
- Explain the operator menu for the Sequence Administrator
- Operate the sequence

End of the presentation

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