Text used in isolation selector tool;

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| ID | Where it is used | Text displayed |
| 1 | If an isolation meets the standard | The isolation selected meets the minimum standards required and can be used. |
| 2 | If an isolation does not meet the standard | The isolation selected does not meet the minimum standard required. A Level 2 risk assessment MUST be carried out if this is to be used. |
| 3 | Small bore tubing controls | 1. Where available double block valves should be used on impulse lines. 2. Pressure build-up test to ensure valve integrity. 3. Regular monitoring of the isolation integrity. 4. Radio link to control room when containment is being broken. 5. Contingency plan to be detailed on ICC or TBT (for personal isolations) in case of isolation failure. 6. Continuous gas monitoring to be present when breaching hydrocarbon systems. |
| 4 | Non-invasive controls | 1. Regular monitoring of the isolation integrity. 2. Contingency plan to be detailed on ICC or TBT (for personal isolations) in case of isolation failure. |
| 5 | CSE controls | 1. Complete separation of the plant / equipment to be worked on from other parts of the system. 2. Controls required as per TUK-17-C-004 section 8 |
| 6 | Controls for BoC Flammable > 10bar | 1. Pressure build-up test to ensure valve integrity. 2. Regular monitoring of the isolation integrity. 3. Continuous gas monitoring to be present when breaching. 4. Contingency plan to be detailed in the ICC or TBT (for personal isolations) in case of isolation failure. 5. Radio link to control room when containment is being broken. |
| 7 | Controls for BoC Flammable < 10bar | 1. Pressure build-up test to ensure valve integrity. 2. Regular monitoring of the isolation integrity. 3. Continuous gas monitoring to be present when breaching." |
| 8 | Controls for BoC Non Flammable > 10bar | 1. Pressure build-up test to ensure valve integrity. 2. Regular monitoring of the isolation integrity. 3. Contingency plan to be detailed in the ICC or TBT (for personal isolations) in case of isolation failure. |
| 9 | Controls for BoC Non Flammable > 10bar | 1. Pressure build-up test to ensure valve integrity. 2. Regular monitoring of the isolation integrity. |
| 10 | Preparation of equipment for flammable or toxic | 1. Depressurised to nominal zero 2. Drain vessels and pipework 3. Water flush vessels and pipework 4. Nitrogen Purge vessels and pipework |
| 11 | Preparation of equipment for Non hazardous | 1. Depressurised to nominal zero 2. Drain vessels and pipework |
| Help Section | | |
| 1 | What is being isolated and why? | This is a text entry box that should contain the equipment description and why it is being isolated.  Example: P14205-A Oil export pump isolated for mechanical seal change out. |
| 2 | What is the purpose of the isolation? | Options here are for Breaking of Containment, To prevent motion in equipment, Confined Space Entry and Breaking of containment of small bore tubing. Select the appropriate item by clicking on the icon. |
| 3 | What is the substance? | Options here are for Flammable or Toxic, Hazardous and Non-Hazardous, select the appropriate item by clicking on the icon. |
| 4 | How long will containment be broken for? | This is not how long the total task will take, this is the length of time that pipework will be left open and exposed should there be a failure of the isolation.  Click on the drop down arrow and select the appropriate option. |
| 5 | Is this within a boundary isolation? | By selecting this option you are confirming that a boundary isolation is already in place and therefore the expected pressure this isolation would be exposed to is  minimal. When selected the pressure will be set to zero in the line specifications. |
| 6 | Next Button | Once all of the above information is entered press the Next button to display the line specification section.  If there is missing information from the above section you will not be able to carry on. |
| 7 | Enter a description of the line being assessed. | Enter a description here of the particular line being assessed. So for example Suction pipework of export pump. Note that a new instance of the selector tool must be  carried out for each line going to equipment. So one for suction and one for discharge in this example. |
| 8 | Enter the pipesize in inches. | Enter the diameter of the line being assessed. Note that if SBT has been selected this will default to 0.5. |
| 9 | Enter the maximum pressure that can be expected. | This is the pressure that could be expected under normal operating conditions. So in this example the relief valve pressure on the suction side of the pump is set at                          10bar however under normal operating conditions the maximum pressure expected would be 4bar. Therefore 4 should be entered in this case. |
| 10 | What is the highest level of isolation that could reasonably be applied? | In this example a double block and bleed valve is available on the suction side of the pump. Therefore it is reasonably practicable to use the double block and bleed isolation. Click on the appropriate icon to select the isolation you plan to use. |
| 11 | Calculate button. | Press this button once all information has been entered. Should anything be missing an alert popup will open showing what is missing. Everything must be filled in before the output screen is show. |
|  | Output screen | This will show all the information that has been entered and then a comparison between the required isolation based on the information supplied and the selected isolation. If the selected isolation meets or exceeds the required isolation it will inform you that the isolation can proceed without further risk assessment. If however the isolation selected does not meet the minimum standard then it will display a warning and inform you that a level 2 risk assessment must be carried out. |
|  | Save as PDF | Shown below the output screen this will create a PDF file and automatically download it to your download folder. This can then renamed and attached to your isolation within TCOW. |
|  | Finished | When finished with the selector tool simply close the window. |
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