

5.2 → **Main(?)** CHAZOP minutes¶

The **Main (?)** CHAZOPs uses a proforma similar to Hazard Study 3 (HAZOP) minutes sheet with some differences to highlight more clearly the approach used.¶

The differences are:¶

- → **Possible Causes** replaced by **Issue/Concern**. This is because we are not looking for the cause of a specific event but are highlighting the problem flagged by the guideword. For example, if the guideword is *bad measurement* the causes are well known and in general cannot be avoided. This is unlike the HAZOP process where it is possible to eliminate most causes if this is cost effective.¶
- → **Existing Safeguards** is omitted for the same reason -- there are few if any safeguards against the events being considered¶

Going through the form in detail:¶

- → **System** -- specific area under review e.g. reactor start-up sequence, ethylene flow control loop¶
- → **Flowsheet** -- loop diagram number, sequence page number(s), ladder listing, page number(s), power SLD page number or whatever is useful for cross-referencing against *Line*¶
- → **Line** -- name of particular loop under review, sequence name, specific power supply or whatever is useful for referencing against *Action(s)*.¶
- → **No.** -- Action number as for Preliminary CHAZOP¶

5.2 **Main (?) CHAZOP minutes**

5.3 The Main (?) CHAZOPs uses a proforma similar to Hazard Study 3 (HAZOP) minutes sheet with some differences to highlight more clearly the approach used.

5.4 The differences are:

- **Possible Causes** replaced by **Issue/Concern**. This is because we are not looking for the cause of a specific event but are highlighting the problem flagged by the guideword. For example, if the guideword is *bad measurement* the causes are well known and in general cannot be avoided. This is unlike the HAZOP process where it is possible to eliminate most causes if this is cost effective.
- **Existing Safeguards** is omitted for the same reason - there are few if any safeguards against the events being considered

5.5 Going through the form in detail:

- **System** - specific area under review e.g. reactor start-up sequence, ethylene flow control loop

- **Flowchart** - loop diagram number, sequence, page number(s)