

## **Advantages of the new PHAST RISK & PHAST 6.6 Version**

The new version has the number of advantages/ improvements from previous versions. Some of the major improvements which would be of interest to clients are listed below:

- Material properties of some of the chemicals like Ammonia and Butadiene have been updated which will have the significant change in the results and will be closer to realistic values
- Suitable theoretical models have been provided as default models for various consequences ( For example Cook's model for horizontal release of two phase mixture in case of jet fire) to provide the most probable values
- Long pipeline modeling has been modified to handle non-ideal gas with valves like excess check valve and Non Return Valve
- Most accurate modeling of CO<sub>2</sub> atmospheric expansion and dispersion can be obtained
- Extended Risk Reporting in addition F-N Curves – Area wise Fatal Accident Rate, Risk Integral Values, Potential Loss of Life Fatal values will help in making accurate decisions on proposed Risk Reduction Recommendations

*The outputs of new software is presented to the client with the international expertise of CMSRS Process Safety team which is updated based on the updated statutory requirements, international standards like Purple Book, EPA guidelines, Centre for Chemical Process Safety, American Petroleum Standards and applicable major national and corporate standards and their rich practical operating and consulting experience.*

***Henceforth all studies will be carried out by using new version of the software only. The license for the version 6.51 will be available with CMSRS for next three months only for reviewing of the results submitted by using them in case of any client clarification. Subsequently no changes with respect to previous reports or results are possible. All draft reports under vetting clients need to be closed and finalized before next three months.***

***CMSRS will continue to provide their correct and practical technological solutions with the latest software tool in the area of process safety***