4. Summary

From EXCEL spreadsheet calculations, the maximum load-carrying capacity (M_{max}) is:

$$M_{max} = 2.0 \text{ MN-m}$$

and, for this pipe, the expected overload (M_{N+SSE}) is:

$$M_{N+SSE} = 2.25 \text{ MN-m.}$$

Since, $M_{max} < M_{N+SSE}$, the pipe will <u>not</u> survive during the overload condition. Hence, this pipe should <u>not</u> be licensed for plant operation under LBB criterion.