**ABET Global Engineering Design Considerations and Standards**

Many engineering design problems are narrowly focused with specific business-related objectives, however, there can be significant peripheral or concomitant impacts. Below is a list of design-related factors that should be considered before completing your analysis of solutions.

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| **Design Factors** | **Factor is Considered (Y/N)** | **If NO, Explain WHY Factor was NOT Considered****If YES, Explain HOW Factor was Considered** |
| ***Public health, safety, and welfare*** (this should include all stakeholders including workers, clients/customers, and public entities)  |  |  |
| ***Global Factors*** (are there global and/or international customers or workers that will be affected) |  |  |
| ***Cultural Factors*** (are there specific populations with unique cultural norms that will be affected) |  |  |
| ***Social Factors*** (are there social and/or political implications that may affect your solutions) |  |  |
| ***Environmental Factors*** (are there outcomes of the solution that will have environmental discharges that will affect air, water, or toxic exposure. Are there energy impacts that will adversely affect the company’s carbon footprint) |  |  |
| ***Economic Factors*** (what are the cost, revenue, capital investment impacts from your solutions) |  |  |
| ***Engineering Standards*** (which if any engineering standards were used in your analysis phase – ISO 9000 - quality, 14000 - environmental, 18000 - safety, 50000 – energy; were there any materials standards such as ASTM or ANSI standards that were constraints on solutions; were there any government standards such as OSHA, NIOSH, NHSTA, IEC, etc. that impacted your design. |  |  |