PERDEC FACTSHEET

Optimizing Economic Life Decisions for Machinery and Fixed Equipment: Use of PERDEC

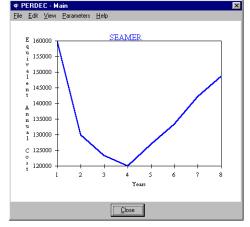
The PERDEC software is designed to assist managers of machinery and equipment establish the economic life of their assets, as well as assist in determining the optimal decision for difficult repair versus replace situations, along with monitoring individual equipment to establish its optimal replacement time.

The longer an asset is kept in service, the lower its ownership cost. However, there is a conflicting cost trend – that of an increasing operations and maintenance cost. The goal of PERDEC is to establish unambiguously the year at which the total cost takes its lowest value. That then is identified as the asset's economic replacement age.

Input

- 1. Purchase price of the asset
- Trend in operations and maintenance costs

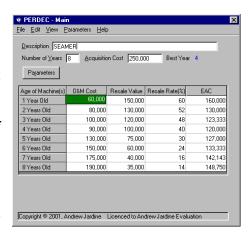
 possibly parts, labour and costs associated
 with equipment being out of service due to
 failure
- 3. Trend in trade-in or disposal value of the asset at different replacement ages
- 4. Interest rate appropriate for discounting to take into account the time-value of money
- 5. Tax rules (if applicable)
- 6. Utilization trend of the assets for example are they steadily used year-to-year, or is new equipment highly utilized with older equipment being used to meet peak demands?
- 7. Inflation rates (if applicable)



Output

The PERDEC software will enable you to establish the optimal time to dispose of an asset such that the Equivalent Annual Cost (EAC) is minimized. It will enable you to display the results graphically and undertake a variety of "what-if" analyses, such as changes in assumptions about interest rates, resale value trends, O & M cost trends and so on.

If you have no data and have just purchased a new piece of equipment, PERDEC will enable



you to monitor the EAC as each year passes to enable you to identify when its optimal replacement age is likely to occur.

If you are faced with a major repair, and need to decide whether or not to proceed with the repair, or advance the planned replacement time, PERDEC can be used to establish the most economically advantageous choice such at the long-run EAC is minimized.

Your Supplier

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