

*W/ Completed 2/17/61  
R.P.K.*

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Estimate File #2178

*W. Wayne*  
*This what you wanted!*

February 14, 1961

~~S. N. Morris~~  
R.P. KELLEY

CENTER FIRE CARBINE BARRELS

An economic comparison has been completed between producing Carbine Barrels by cutting 3 1/2" off regular 22" Barrels at crowning or processing separate short Barrels. By purchasing bars 8'8" (104") a material savings can be realized for both Carbine and 24" Barrels.

Based on producing 31,600 Carbine Barrels and 3,300 - 24" Barrels, an estimated savings in operating costs of \$4,800 per year would be realized. This would result in a net savings of \$2,070 per year.

It is estimated that carrying two lengths of bars in inventory instead of one length, and having additional sizes of Barrels in process, would increase working capital requirements \$1,800.

It was assumed that all tooling required to process separate Carbine Barrels is available and that there would be no change in the design nor additional expenditures.

Based on an investment of \$1,800 and a net savings of \$2,070, a return of 115% would be realized. Since this return would justify purchasing shorter bars and processing separate Barrels, it is recommended that model drawings be prepared for the Carbine Barrels.

R. A. Morris, Supervisor  
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Att.  
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