NONMANDATORY APPENDIX R
DETERMINATION OF PERMISSIBLE LOWEST SERVICE METAL TEMPERATURE FROM \( T_{NDT} \) FOR DIVISION 1, CLASSES 2 AND MC; AND DIVISION 3, CLASS WC CONSTRUCTION

ARTICLE R-1000
PERMISSIBLE LOWEST SERVICE METAL TEMPERATURE

R-1100 INTRODUCTION

R-1110 SCOPE

These rules provide the method for determining the permissible lowest service metal temperatures for materials having nil-ductility transition temperatures (\( T_{NDT} \)) determined in accordance with NC-2311(a)(8), NE-2311(a)(8), WC-2311(a)(7) or NC-2331(b), NE-2331(a)(2), WC-2331(a)(2), as applicable.

R-1200 DETERMINATION OF PERMISSIBLE LOWEST SERVICE METAL TEMPERATURE

The permissible lowest service metal temperature is defined as:

\[
T_{NDT} + A
\]

where \( T_{NDT} \) is determined in accordance with NC-2311(a)(8), NE-2311(a)(8), WC-2311(a)(7) or NC-2331(b), NE-2331(a)(2), WC-2331(a)(2), as applicable, and \( A \) is determined from Figure R-1200-1 for the thickness of the material.

R-1210 MATERIAL ACCEPTABILITY

For the material to be acceptable, the permissible lowest service metal temperature shall not be higher than the specified lowest service metal temperature.

replace "NC-2311(a)(8)" with "NCD-2311(a)(8)-(a)"
and replace "NC-2331(b)" with "NCD-2331(b)"