Background
Westinghouse offers a redesigned 7300 System power supply that is price-competitive and provides a reliable replacement, effectively addressing customer operational, maintenance and repair issues.

Prior to the redesign effort, Westinghouse had been providing refurbishment services for the original 7300 System power supply. During that time, a great deal of technical information was gathered through customer engineering contacts. From these discussions, Westinghouse was able to analyze problem areas and features that were either lacking or not available with the original 7300 System power supply design. In line with its commitment to fully support core vintage systems and proactively address obsolescence and reliability, Westinghouse designed the new 7300 System power supply, which is a direct replacement for the original power supply.
Product Identification and Qualification
The new 7300 System power supply replaces the original power supply as follows.

<table>
<thead>
<tr>
<th>Original Part Number</th>
<th>New Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6005D54G01</td>
<td>2D39950G01.G05</td>
<td>26 VDC, 60Hz, Primary</td>
</tr>
<tr>
<td>6005D54G02</td>
<td>2D39950G02.G06</td>
<td>24 VDC, 60Hz, Backup</td>
</tr>
<tr>
<td>6005D54G03</td>
<td>2D39950G03.G07</td>
<td>26 VDC, 50Hz, Primary</td>
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<tr>
<td>6005D54G04</td>
<td>2D39950G04.G08</td>
<td>24 VDC, 50Hz, Backup</td>
</tr>
</tbody>
</table>

*2D39950G05–G08 include an optional over-voltage protection/filter health card.

The new 7300 System power supplies are form, fit and functional equivalents to the original power supplies and have been environmentally and seismically qualified to the original levels documented in Westinghouse WCAP-8687, Supplement 2-E13D.

Features and Design Enhancements
All groups (G01–G08) of the new 7300 System power supply have the following features:
- Higher output current (80 amps as opposed to the original 65 amps)
- Cooler operating temperature due to the use of low-power consumption components, larger heat sinks, and a higher aluminum content in the chassis
- Lighter weight (approximately 15 lbs [6.8 kg] lighter than the original)
- Higher filter capacity (0.6 farad as opposed to the original 0.5 farad)
- Digital meters and test points to monitor output voltage and current
- 100-watt bleeder/minimum load resistors as opposed to the original 75 watt ratings
- 35-amp input AC breaker instead of the original fuse
- 80-amp output DC breakers that provide better coordination with card frame fuses
- Load sharing

Groups G05–G08 of the new 7300 System power supply include an over-voltage protection/filter health card with the following features:
- Over-voltage protection on the output of the power supply
- Automatic disconnect of the bleeder/minimum load resistors, which eliminates approximately 90 watts of power consumption and reduces internal heat generation
- Output voltage ripple monitor that provides a visual indication of excessive ripple due to filter capacitor degradation