



# Lemo 3-Pin Connector Test

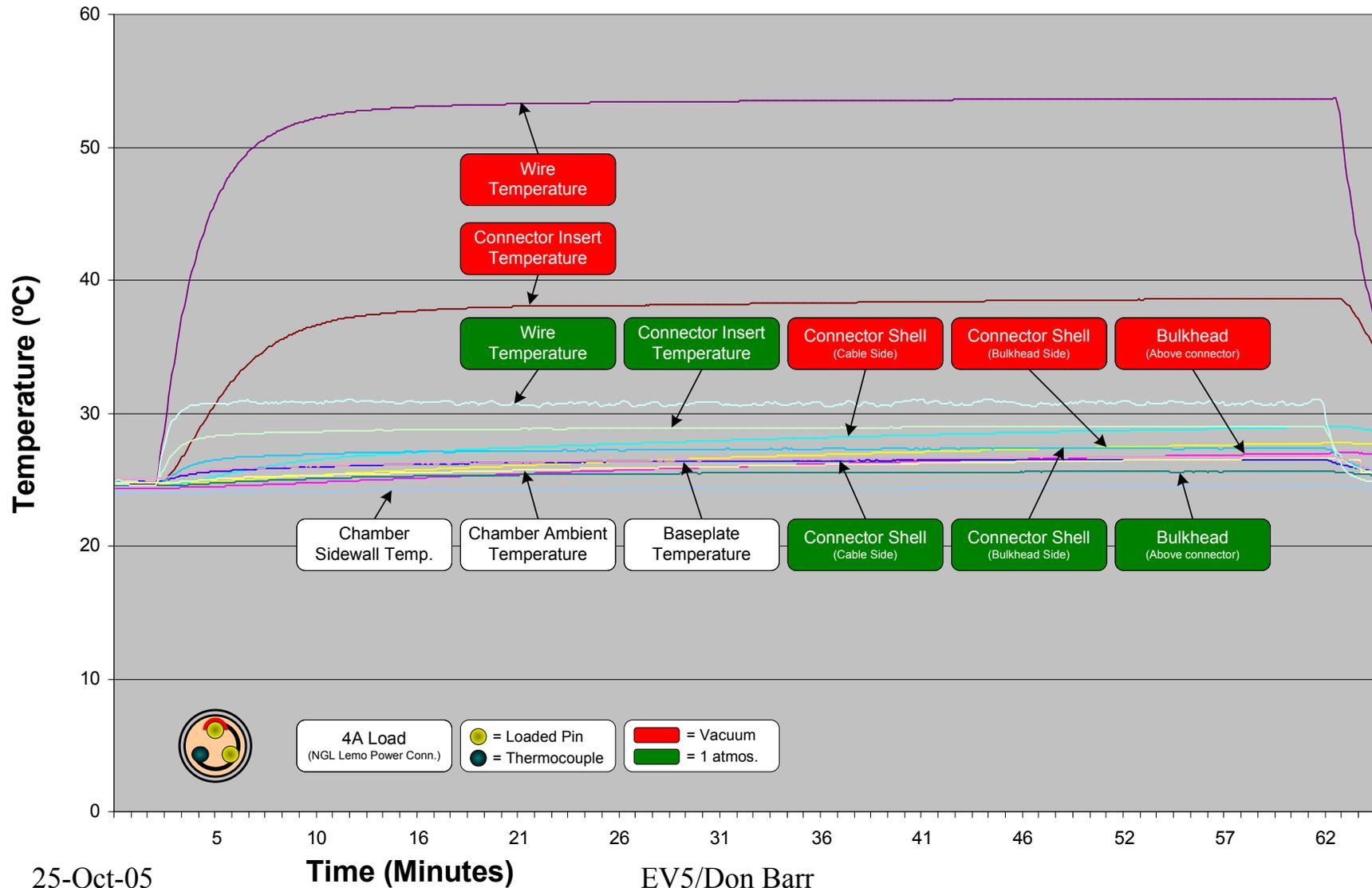
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- Test Configuration:
  - Lemo F-Series environmental connector (3 contacts) as used on NGL Power Interface Cable
  - Contacts wired with #22AWG Teflon jacketed wire (M22759); approximately 12”
  - Lead wires are not bundled together
  - 2 contacts wired, thermocouple installed onto third contact
  - Test currents applied at both vacuum ( $<1 \times 10^{-5}$  Torr) and normal atmospheric pressure (760 Torr)
  - Test currents of: 4A, 8A, and 11.5A; simulating actual use, rated, and smart-short (failure) current levels respectively.
- Conclusion:
  - Connector operates within rated temperature range (200°C) for all configurations tested
  - Smart-short current exceeds manufacturer specified rated current but does not overstress the connector (overstress is characterized as an insert, shell, or contact temperature exceeding the manufacturer’s ratings).



# 4A Test (67% load)

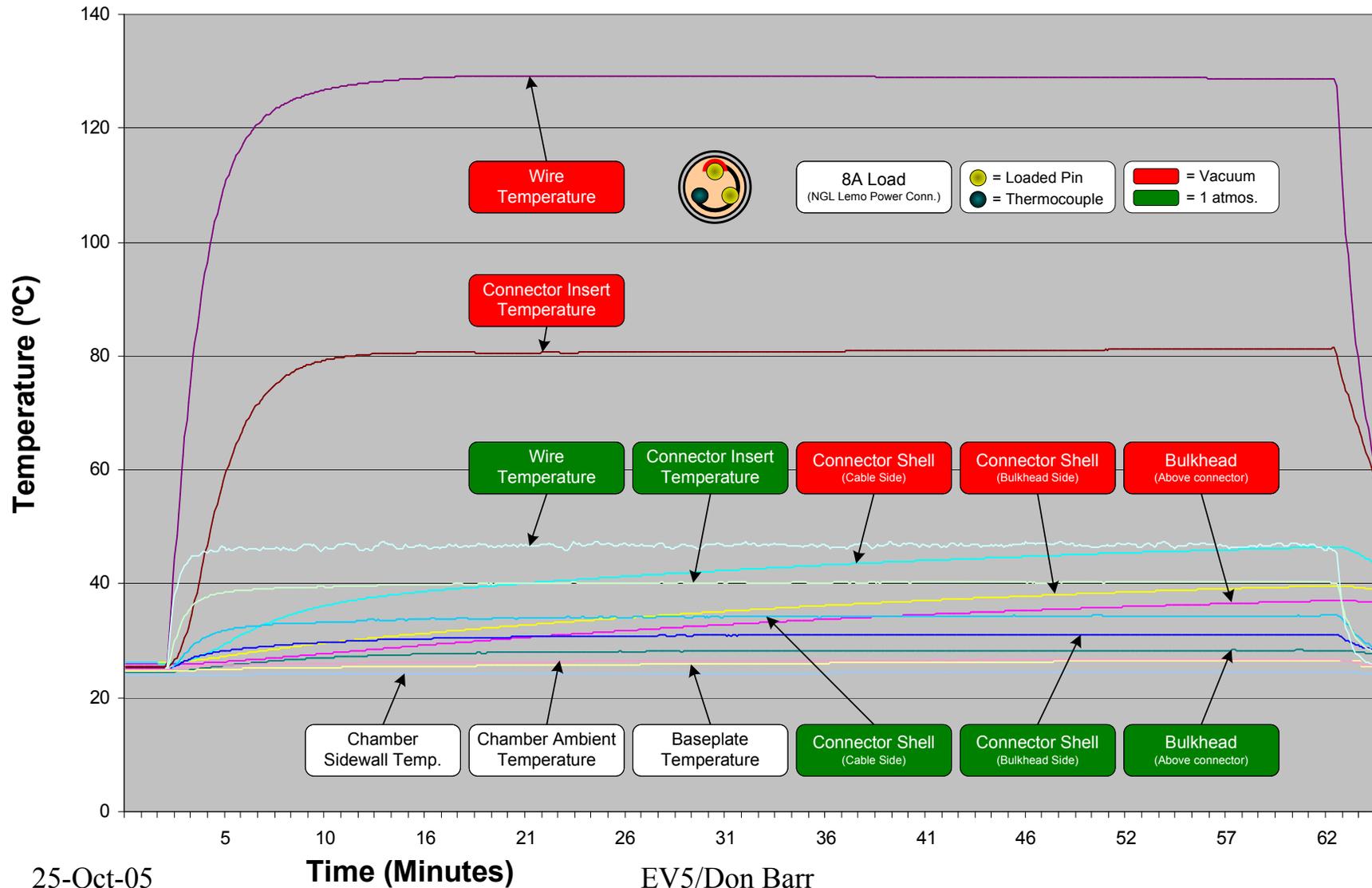


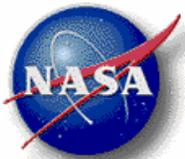
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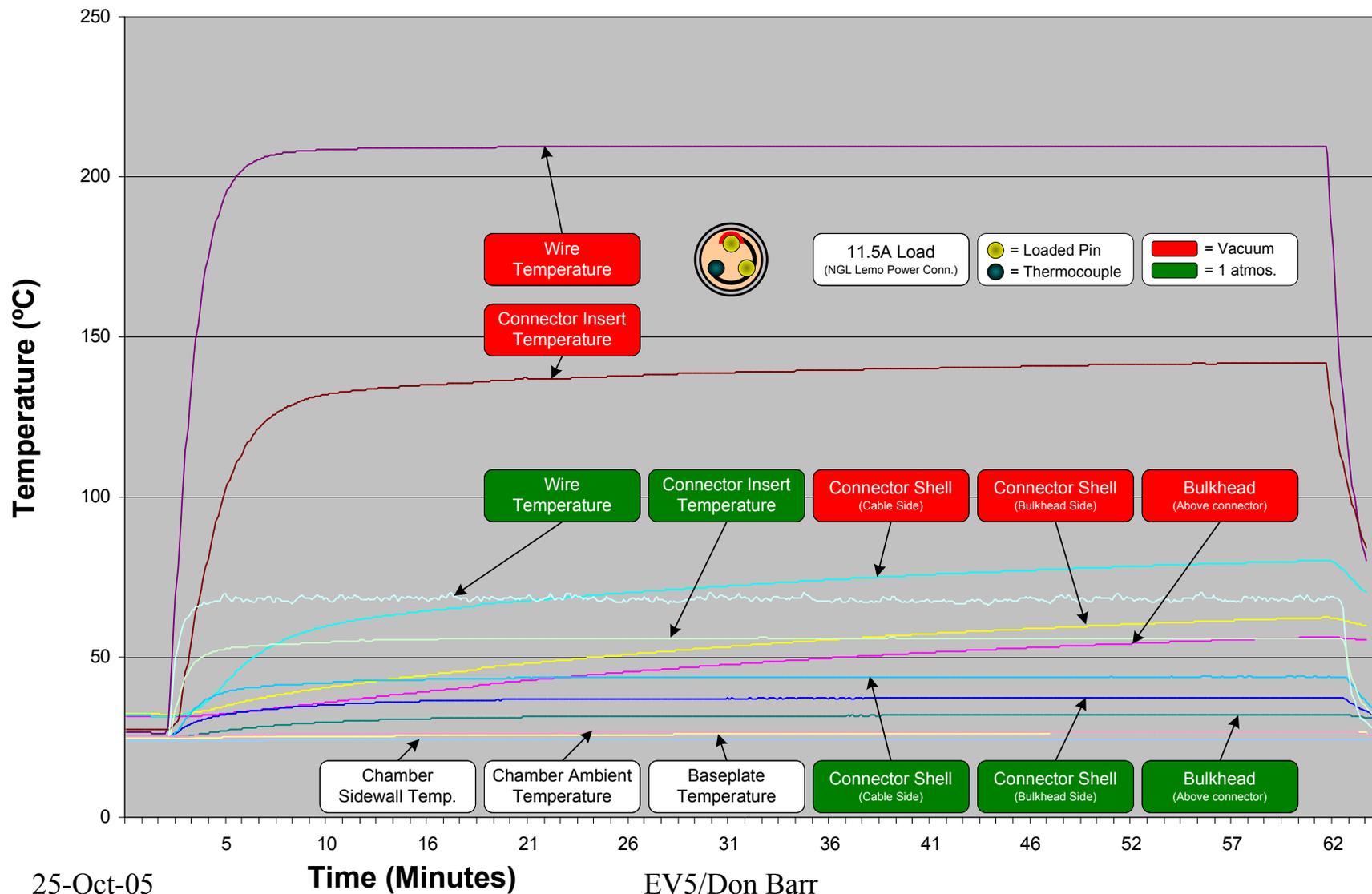


# 8A Test (67% load)





# 11.5A Test (67% load)



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