Position Title: Metallurgical Technician “A”

Department Name: Laboratories, R& O

Reporting To: Supervisor, Special Processes

Purpose of Position:
Perform & report on tests in the Metallurgical Laboratory

Key Contacts:
External:

Internal:

Position Specific Skills
Computer skills in application programs such as Microsoft Word, Excel & Access
Performs tests independently
Experience using: hand grinder, cut-off machine, wet grinding wheel, polishing wheel, microscope, camera, tensile machine, hardness testing machine, bend test fixture, stress rupture machine, data logger (or chart recorder) & computer

Job Progression
CBA

Pay Equity
Male Dominated

Effort, Working Conditions
Minimal physical effort
Comfortable physical environment
Moderate sensory attention
Modest mental stress

Education/ Background
Formal college education in a 2 yr. Metallurgy program
3-5 yrs. Related work experience in a manufacturing environment preferably aerospace

Major Responsibilities

Perform test to assess welding & brazing equipment, processes, & employee certification
Perform tests & assess the quality of flame & plasma spray coating
Conduct hardness testing using Rockwell, Vickers, & portable hardness tester
Perform tensile testing at room & elevated temperatures
Polish, etch, & photograph specimens for metallographic examination
Interpret & assess microstructure conditions
Align & verify instrumentation & equipment, manufacture test tensile thermocouples & operate potentiometers, recorders, & similar equipment
Perform & report on stress rupture testing
Prepare flat test samples for tensile or stress rupture testing. Prepare bend test specimen
Prepare presentation of data in form of graphs, tables, & charts; Check calculation test results performed by other technician(s)

Standards
Certify process operators, materials, process & production control tests

Competencies
Customer focus
Function & technical skills
Directing others

Training
Orientation
QMS/EMS
Controlled Goods Legislation
WHMIS
Round Robin (all tests)
Chemical Storage & Handling
Registration of Wastes
Spill Response
TCE Vapour Degrease
Hydrofluoric Acid Safety