

\*\*\*\*\* **ANASPEC SERVICE SCHEDULE** \*\*\*\*\*

**FEI TECNAI TEM SERVICE SCHEDULE**

**DATE :**    /    / 20   

**SERVICE TYPE:** MAJOR  MINOR

**CUSTOMER :** \_\_\_\_\_

**INSTRUMENT :** \_\_\_\_\_ **Serial Number:** \_\_\_\_\_

**SOFTWARE:** \_\_\_\_\_

**ACCESSORIES :**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**INITIAL SYSTEM CHECKS**

<b><u>CHECK CONDITION OF</u></b>	<b><u>EQUIPMENT</u></b>	<b><u>COMMENTS</u></b>
<i>Compressed air system</i>	<i>Compressor</i>	
	<i>Airlines</i>	
	<i>Water trap</i>	
<i>Water flow system</i>	<i>Chiller</i>	
	<i>Pressure/flow</i>	
	<i>Temperature</i>	
	<i>Flow switches</i>	
<i>Vacuum system</i>	<i>Waterlines</i>	
	<i>Rotary pump</i>	
	<i>Diffusion pump</i>	
<i>Valve system</i>	<i>Ion Getter pump</i>	
	<i>Pneumatic valves</i>	
	<i>Electric valves</i>	
<i>Venting system</i>	<i>Nitrogen system</i>	
	<i>Desiccator's</i>	
<i>Suspension system</i>	<i>Air/damper</i>	
<i>Viewing chamber</i>	<i>Viewing glass</i>	
	<i>Small screen</i>	
	<i>Large screen</i>	
	<i>Binoculars</i>	
<i>Detection systems</i>	<i>Dewar level/alarm</i>	
<i>Cooling fans</i>	<i>Complete system</i>	
<i>General condition</i>	<i>System</i>	

### INITIAL SYSTEM CHECKS

<u>CHECK CONDITION OF</u>	<u>TYPE/VALUE</u>	<u>COMMENTS</u>
General control	Workstation	
	Mechanical	
Filament type		
Vacuum		
High tension		
Filament saturation		
Bias / Emission		
Spot size		
Focus		
Beam path		
Pointer	Mechanics	
Compustage	Initialization	
Sample holder	Mechanics	
Save conditions	Via software	
Sample chamber	Pump down time	
Column alignment	Gun	
	Condenser	
	Objective	
	Diffraction	
	Stigmators	
Aperture holders	Mechanics	
Apertures	Condenser	
	Objective	
	Diffraction	
Stage/sample movement	Image	
	Mechanics	
Console controls	Roller balls	
	Variable knobs	
	Pad switches	
	Indication LED's	
	Mouse	
Camera system	Plate	
	Digital	
EDX System	Mechanics	
	Alarm	

**SERVICE**

<b><u>COLUMN</u></b>	<b><u>CHECKED/ CLEANED</u></b>	<b><u>COMMENTS</u></b>
<i>Gun lifting mechanism</i>		
<i>Gun Ceramic and housing</i>		
<i>Emission chamber</i>		
<i>Filament holder</i>		
<i>Whenelt Cap and aperture</i>		
<i>Anode</i>		
<i>Condenser liner tube</i>		
<i>Condenser fixed aperture</i>		
<i>Condenser Pole piece</i>		
<i>Objective aperture mechanism</i>		
<i>Objective apertures</i>		
<i>Diffraction aperture mechanism</i>		
<i>Diffraction apertures</i>		
<i>Viewing chamber</i>		
<i>Small, Big screen surface and mechanics</i>		
<i>Binoculars</i>		
<i>Sample holder</i>		
<i>Goniometer</i>		
<b><u>VACUUM AND COOLING SYSTEM</u></b>		
<i>Rotary pump</i>		
<i>Diffusion and IGP pumps</i>		
<i>Pirani Gauges</i>		
<i>Penning Gauges</i>		
<i>Compressor and airlines</i>		
<i>Waterline trap</i>		
<i>Chiller and water lines</i>		
<b><u>POWER SYSTEM</u></b>		
<i>Ups</i>		
<i>Main rectifier unit</i>		
<i>Voltage rails</i>		
<i>Bulbs and blown fuses</i>		
<i>Cooling fans and filters</i>		
<b><u>ACCESSORIES</u></b>		
<i>EDX System/s</i>		
<i>Camera system/s</i>		
<i>Printer system</i>		

## SYSTEM OPERATION

<u>VARIABLES</u>	<u>CHECKED</u>	<u>COMMENTS</u>
<i>Microscope control</i>		
<i>Vac sequence</i>		
<i>DP and IGP</i>		
<i>Valve sequence</i>		
<i>Pump down durations</i>		
<i>Vacuum readings</i>		
<i>HT Operation</i>		
<i>Filament Operation</i>		
<i>Bias Operation</i>		
<i>Alignment procedures</i>		
<i>Digital capturing</i>		
<i>EDX capturing</i>		
<i>Saved Alignment, Images Hard copy, Soft copy</i>		
<i>Backups of all drives</i>		

### **GENERAL COMMENTS**


**SERVICE DONE BY:**.....

**CUSTOMER SIGNATURE:** .....

**DATE:** .....