

# **FAILURE ANALYSIS INFORMATION**

**(The following information can help us better understand your specific issue and create a customize test plan for your project)**

## **1. BASIC INFORMATION:**

What is the part called (part number and description)?

Can you provide an engineering drawing for the part?

What material is the part made of?

Can you provide details/specifications for this material?

How much does each part weigh?

Is the part hazardous or has it been exposed to any hazardous materials?

## **2. MANUFACTURING INFORMATION**

Who makes the part?

How long has this design been manufactured for?

How is the part assembled?

Have there been any recent changes to the design?

Have there been any recent changes in suppliers?

## **3. SERVICE HISTORY**

How is the part used?

What are normal service conditions (temperature, humidity, fluids, sunlight)?

Can you provide a picture or drawing of the service environment?

#### 4. FAILURE INFORMATION

Provide a general description of the failure?

How long had the parts been in service when they failed?

How many failures have been reported?

How many parts were manufactured and what percentage failed?

Are there any patterns to these failures?

How many customers:

Specific time periods:

Batches of material:

Geographic locations:

Have there been previous problems with this design?

Do you have any suspicions of what may have caused the failure?

#### 5. CAN YOU PROVIDE THE FOLLOWING?

Failed parts

Good parts – Removed from service without failure.

Unused parts

Retained raw material from failed lot and/or current lot.

Part engineering drawing.

Part assembly drawing.

Material specifications.

Service history.