NSDD RPM Parameter Change Form

Version 1.2

Name: _____ **Date**: _____

Country:		Temporary change? (Check if yes) ☐
Site:		Data analyst change? (Check if yes and provide additional documentation) ☐
Lane:		
Lane description, if applicable (e.g., Import Lane 1)		MDS? (Check if yes) ☐

Parameter change	Parameter to adjust:	
	OLD setting:	
	NEW setting:	

Reason for change	
Anticipated impact	

Completion of this form is expected for all changes to RPM settings.

See Page 2 for allowable settings, ranges, and document distribution after completion.

Field Adjustable

Setting Name	Allowable Range
Background High Gamma Fault	3x to 5x background of highest detector
Algorithm (PM only)	1010 [SUM+VERT] or 1000 [SUM] only
Detectors On-Line	(any can be turned off)
Relay Output	1 or 2

Data Analyst Adjustable

Setting Name	Allowable Range
Background High Gamma Fault	3x to 5x background of highest detector
N.Sigma	≤ Target Value

Name: This is the person who made the change or is recommending the change. Include name and organization.

Date: For field personnel, this is the date the change was made. For analysts, this is the date the change was recommended.

Country, Site, and Lane: "Lane" in this case refers to the lane number as used in the daily file; of the form "L001" or "L123."

Lane description: If the lane is usually referred to by another name, such as "Import Lane 1" or "Exit Lane 2," include that here for clarity.

Temporary change: If the change should not be considered a long term change (e.g., a detector is offline), check this box so that a follow-up action can be tracked.

Data analyst change: If the change is being recommended by the data analyst, check this box and attach additional information as necessary. This will also queue that action is necessary to implement the change.

MDS: Check this box if the lane is a Mobile Detection System (MDS).

Parameter to adjust: List the parameter name, as defined in the above table.

OLD setting / NEW setting: Enter the before and after values of the parameter, for record keeping.

Reason for change: Provide justification for the change. For example, "Corrected incorrect setting" or "Failed high voltage power supply and no spares available" or "Nearby x-ray interference that could not be mitigated."

Anticipated impact: Describe the anticipated impact. This will likely be a reduction in alarms. Other comments can be provided in this field.

All personnel are allowed to bring an incorrect setting back into compliance with NSDD Program Guidance, even if that parameter is not listed in the above table. This form should be completed and submitted after the correction.

The following are allowed to make the changes listed under "Field Adjustable" in the above table: approved personnel and trainers, LANL Country Leads or Country Lead Representative, a technical representative from Rapiscan (formerly TSA Systems), or a local maintenance provider.

Submission of this form by the data analyst (with supporting information and concurrences) is sufficient for approval; no other approvals are necessary. When complete, send the form to the following:

- Project Team (Country Manager, Sustainability Manager, LANL Representative, ORNL Data Analyst)
- LANL Configuration Management Database Administrator (nsdd_rpm_cm_admin@lanl.gov)
- ORNL NSDD Management Team (NSDD@ornl.gov)

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Data Analyst Form for N.Sigma Changes or MDQ/FAR Analysis

Analyst: _____ **Date implemented**: _____

Date range analyzed:	From:		To:	
Country:				
Site:				
Lane:				
Lane description, if applicable (e.g., Import Lane 1)				

Parameter change	Parameter to adjust:			
	OLD MDQ:		NEW MDQ:	
	OLD FAR:		NEW FAR:	

Additional assumptions		

Concurrences	Analyst #1	
	Analyst #2	

Page 3 is only expected to be completed by the ORNL Data Analyst and not the field technician.
Attach additional sheets as necessary, including the MDQ vs. Alarm Rate graphs for N.Sigma changes.