

**Work Instruction**

**MES-NC OASIS Training (SMRRs)**

**MES-NC**

**Purpose**

Use this procedure to submit an electronic nonconformance document.

**Trigger**

Perform this procedure when a nonconformance requires Sentinel Space Systems Program MRB disposition.

**Prerequisites**

OASIS user name and password with access to MES-NC

**Menu Path**

- OASIS; Manufacturing Execution System - NonConformance (MES-NC).

**Application**

**MES-NC**

**Helpful Hints**

For questions on usage, please contact [MESNCOASISTagCreationSentinel@ngc.com](mailto:MESNCOASISTagCreationSentinel@ngc.com)  
or contact your Northrop Grumman Buyer

## Procedure

1. Start the process by selecting “Log In” from the OASIS homepage. Enter your user name and password.

## MyOASIS login

**NORTHROP GRUMMAN**  
OASIS Portal

## Welcome to the Supplier Portal

### My Tools

Get started managing various aspects of your connection to Northrop Grumman


- Annual Certification ⓘ
- Approved Special Processor Listing ⓘ
- AssetSmart ⓘ
- E-2/C-2 EIDE ⓘ
- FileDrop ⓘ
- Hazard Identification & Tracking System (HITS) ⓘ
- Industrial Supplies Web Site (USTG) ⓘ
- Integration Point/C-TPAT
- Managed File Transfer (MFT) ⓘ
- Manufacturing Execution System - NonConformance (MES-NC) ⓘ
- Material Acquisition Pull System ⓘ
- My Purchase Orders ⓘ
- One IES Teamcenter ⓘ
- PLSC2 ⓘ
- PPDDS ⓘ
- Quality Notification: Corrective Action Request (eCAR) and Supplier Information Request (eSIR) ⓘ
- Quality Tool Inspection System (QTIS) ⓘ
- Request for Change or Information ⓘ
- Ryder ⓘ
- SEKO ⓘ
- SIR ⓘ
- SQUID UII Number Download ⓘ
- Standard Notes ⓘ
- Supplier Delivery Management System (PO/CO Stating) ⓘ
- Supplier Information Form ⓘ
- Supplier Scorecard ⓘ
- Supplier Technical Product Data ⓘ
- Tax Resale Exemption Certificates ⓘ
- Technical Data Retrieval System (TDRS) ⓘ
- Tooling Material/Supplies Procurement Supplier Site (TMS-Web) ⓘ
- Tooling Request for Quotation (TRFQ) ⓘ
- Tooling Supplier Website (TSW) - PLACE ⓘ
- UID Drop Application Request ⓘ





















This screen requires a MyOASIS User Name and Password. If you do not have one or yours is not working, please contact the appropriate person by clicking on this button from the OASIS homepage.

## Contact button

[> Contact Suppliers Support](#)

**MES NC Home Page**

User: BIRENBAUM, ADAM C [US] (SP)      Supplier Code: 90020286  
 Test Supplier Company      

<p>El Segundo Palmdale New Town, ND</p>	 F/A-18 HORNET	 B-2 SPIRIT	 F-35 JOINT STRIKE FIGHTER	 F-5B/T-38 TIGER/TALON	 STS-12
<p>Rancho Bernardo</p>	 RQ-4B GLOBAL HAWK	 BQM-74/34 TARGETS	 X-47B J-UCAS	 CHUKAR TARGETS	
<p>Moss Point</p>	 MQ-8 FIRESOULT				
<p>Space Park</p>					
<p>St. Augustine Bethpage Melbourne</p>	 E-2C HAWKEYE	 E-2D ADVANCED HAWKEYE	 EA-6B PROWLER	 EA-18G GROWLER	 E-8C - JSTARS
<p>GBSD</p>	 LEMV				
	 AN/AES1 - ALMDS				
					

2. Select the Site based on product.



Product and Site can be determined by locating the Project ID on the NGSP PO line item, and then looking it up on the Definitions and Project ID document on OASIS.

### Possible error, when logging in

The screenshot shows a web browser window with the address bar displaying `https://myoasis.northgrum.com/mesnct/home.jsp?site=xrbt`. The page content includes the **NORTHROP GRUMMAN** logo and a large **Error!** heading. Below the heading, a red error message reads: `com.ibm.websphere.ce.cm.StaleConnectionException: No more data to read from soc`. A blue hyperlink labeled [Return to home page](#) is positioned below the error message.



If the above error is encountered, click on the refresh icon and it will load.

## MES NC Home Page

**SDS**

Site Index

Note - Suppliers must disclose to Northrop Grumman Corporation if an SMRR submission was previously rejected by their internal customer.

User: BIRENBAUM, ADAM C [US] (SP) Supplier Code: 90020286  
Hello Test Supplier Company

Create NC Tag View NC Tag

3. Select **Create NC Tag** to initiate a tag or **View Existing Tag** to see previously submitted tags.



The following steps have tables with a column titled '**R/O/C**'. The definitions are:

**R** = Required

**O** = Optional

**C** = Conditional

Additionally, all required fields are identified with an asterisk on the screen

**Create Non Conformance Tag -**

The screenshot shows a web form titled "Create NonConformance Tag" within the "MES-NC" system. The form is divided into two main sections: "Supplier Information" and "Supplier Contact Info".

**Supplier Information:**

- High Priority
- Supplier Name: Test Vendor 2
- Supplier Address: 1234 South Rd, Centreville VA 20120, 20120 US
- Supplier Code: 0090020286
- \*Part Number: (empty)
- \*Purchase Order No: (empty)
- Item No (PO Line Num): (empty)
- \*Sales Order / Network: (empty)
- \*Project ID: GBSDX
- \*Production Lot Size: (empty)
- \*No of Pieces Submitted: (empty)

**Supplier Contact Info:**

- \*Name: BIRENBAUM, ADAM C.[US] (SP)
- \*Phone: 385-442-1240
- \*Fax: Fax
- \*E-Mail: Adam.Birenbaum@ngc.com

**Callout Boxes:**

- Top right: "Northrop Grumman" Purchase Orders ONLY. For all others, contact your Customer Contracts Administrator for direction
- Bottom right: Note: Enter Project ID from your NGC Purchase Order

A "Next" button is located at the bottom of the form.

4. As required, complete the following required fields:

Field Name	R/O/C	Description
Part Number	R	Enter the SP Part Number from the PO. <b>Example:</b> K0323NP123456-1234 <b>Note:</b> PO part number may be substituted with <u>detailed part</u> number with MRB Chair authorization. Contact your Northrop Grumman Supplier Quality Engineer to obtain MRB Chair authorization.
PO Number	R	Enter the SP PO Number. <b>Example:</b> 12345678 <b>Note:</b> "Northrop Grumman" Purchase Orders ONLY. For all others, contact your Customer Contracts Administrator for direction.

**Title:** MESNC Strategic Deterrent Systems for Sentinel  
Program Training (SMRRs) - Supplemental  
Guideline

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Field Name	R/O/C	Description
Item No (PO Line Num)	R	Enter the PO Line Item number <b>Example:</b> 1

PO view of Sales Order/ Network

Item	Material/Description	Contract	Delivery Date	Quantity	UM	Net Price	Extended Amount
1	K0323NP123456-1234 SHIM				0 EA	127.50	765.00

**Priority Rating:** DOA1

**Shipping Instructions:** SCATS

**Material Revision Level:** K0323NP123456-1234, B01

**SQAR CODE:**

E

**MATERIAL TEXT:**

Go to OASIS and Retrieve the Appropriate Technical Data Package (TDP)

**PROJECT ID:** **GBSDX - GBSD**

**US Government Prime Contract Number:** N00019-13-C-9999

**CHARGE NUMBER TEXT:**

CONTRACT:N00019-13-C-9999

**NETWORK:** **KB2260701**

ACTIVITY:3360

QUANTITY: 1.000

CONTRACT:N00019-13-C-9999

Sales Order/ Network (Go Num) Network	R	Enter the Network from the PO line item (see picture above, underlined in red) Example: <b>KB2260701</b>
Project ID	R	Select the Project ID from PO (see picture above) Example: <b>GBSDX</b>
Production Lot Size	R	Enter the number of parts on the shop order or your lot size Example: <b>1</b>
No. of Pieces Submitted	R	Enter the total quantity of discrepant parts being submitted for NGSP Material Review Example: <b>1</b>



*Title: MESNC Strategic Deterrent Systems for Sentinel  
Program Training (SMRRs) - Supplemental  
Guideline*

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Supplier Contact Info		
Name	R	Enter the name of person to contact if there is a question from NGSP MRB Example: <b>John Smith</b>
Phone	R	Enter the phone number of person to contact if there is a question from NGSP MRB Example: <b>(999) 999-9999</b>
Fax	R	Enter the FAX number of person to contact if there is a question from NGSP MRB or if documents need to be transmitted Example: <b>(888) 888-8888</b>
E-Mail	R	Enter the email of person to contact if there is a question from NGSP MRB or if documents need to be transmitted Example: <b>jsmith@somewhere.com</b>

## Create Discrepancy #1

Site Index > SDS

### Create Discrepancy (part#: K0323NP123456-1234)

*Part No	K0323NP123456-1234
Serial No	Part Serial Number
Lot No / LDC	Part Lot Number
*Sheet / Paragraph	Sheet
*Zone	Zone
*Qty Rej / Def	Qty Rej/Def
*Process Code	<input type="text"/>
*Defect Code	<input type="text"/>
*Disc Text	<div style="border: 1px solid #ccc; height: 80px; width: 100%;"></div>

5. As required, complete/review the following fields:

Field Name	R/O/C	Description
Part No.	R	<p>This field will be filled with the part number from the first screen. If the discrepant part is different, then enter it here.</p> <p>Each discrepancy may have a different part number, as long as it is a detail of the PO part number on the first screen</p>
Serial No.	O	<p>Enter serial number; if applicable</p> <p>This field is small. If you are submitting the same nonconformance for all serial numbers, then put the serial numbers in Disc. Text.</p> <p>If each serial number has a different discrepancy, then load serial numbers individually; per discrepancy. Note: there will be an opportunity to add more discrepancies after completing this page of fields</p> <p><b>Example:</b> S0001</p>
Lot No. / LDC	O	<p>Enter Lot Number; if applicable</p> <p>If multiple lots, see comments on Serial Number above for input strategy.</p> <p><b>Example:</b> 444444</p>

## Create Discrepancy #1

Site Index > SDS

### Create Discrepancy (part#: K0323NP123456-1234)


<b>*Part No</b>	<input type="text" value="K0323NP123456-1234"/>
<b>Serial No</b>	<input type="text" value="Part Serial Number"/>
<b>Lot No / LDC</b>	<input type="text" value="Part Lot Number"/>
<b>*Sheet / Paragraph</b>	<input type="text" value="Sheet"/>
<b>*Zone</b>	<input type="text" value="Zone"/>
<b>*Qty Rej / Def</b>	<input type="text" value="Qty Rej/Def"/>
<b>*Process Code</b>	<input type="text"/>
<b>*Defect Code</b>	<input type="text"/>
<b>*Disc Text</b>	<div style="border: 1px solid #ccc; height: 80px; width: 100%;"></div>

6. As required, complete/review the following fields:


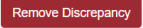

Field Name	R/O/C	Description
Sheet/ Paragraph	R	Enter the drawing sheet number where discrepant dimension appears <b>Example:</b> 1 <b>Note:</b> Enter N/A if not applicable
Zone	R	Enter drawing zone of above sheet <b>Example:</b> 2B <b>Note:</b> Enter N/A if not applicable
Qty Rej / Def	R	Enter quantity of parts for this discrepancy. Remember the input strategy being used, one per or multiple parts <b>Example:</b> 1
Process Code	R	Select the appropriate category <b>Example:</b> Material Handling

**Title: MESNC Strategic Deterrent Systems for Sentinel Program Training (SMRRs) - Supplemental Guideline**

Field Name	R/O/C	Description
Defect Code	R	Select the appropriate defect code from the pull down list using the defect definitions provided. <b>Example:</b> External NG Supplier
Disc. Text	R	Enter the discrepancy using the Should Be per drawing dimension and <b>Note:</b> Appendix A contains requirements on Discrepancy Definition and Information Needed for NG engineering to perform the analysis and disposition determination.

7. Click on  for the first discrepancy.

**View of an on-line tag of Discrepancy #1**

Disc# 1




Supplier Material Review Report		Aerospace Systems Sector	1) SMRR No. 0	2) Sheet 1 of 1	2a) Revision
3) Supplier 1234 South Rd Test Vendor 2 -Centreville VA 20120 20120 US		3a) Supplier Code 0090020286		4) Date	
5) Part K0323NP123456-1234		5) Complete part name			
8) PO No 12345678	8a) Item No 1	9) Purchase order delivery date	10) Proj No KB2260701	11) Model SMRR/SMRR	12) Vehicle No 00000
13) Production Lot Size 1	14) No of Pieces Submitted 1		15) Government Inspection	16) Material Location	17) Crit Code
18) Description Part No: K0323NP123456-1234 Lot / LDC: Sheet/Paragraph: N/A Zone: N/A Qty/Req: 1 Qty/Def: 1 Supplier E-Mail: Adam.Birenbaum@ngc.com Text: IS: Hole on K0323NP123456-1234 Shim is oversized to .198".  S/B: .192 +/- .004"  See Attachments for photos					
23) Disposition Text					
25) Corrective Action					
29) Disposition Accomplished (Supplier Inspection Supervisor)					

8. Click on the appropriate button to create each additional discrepancy (repeat steps 5 & 6) as required or remove one with the Remove Discrepancy button.

Click on the Finish button when you are done entering data.

**mesnc.amer.myngc.com says**

You are about to submit a nonconformance request, do you wish to  
continue?

OK

Cancel

System message displays. Click OK to continue.

**This screen has the MES-NC tag number, for future reference**

Disc# 1 Create Same As Attachments

<b>Supplier Material Review Report</b>		Aerospace Systems Sector	1) SMRR No. 1800224	2) Sheet 1 of 1	2a) Revision
3) Location Test Vendor 2 - Chesapeake VA 20120 20120 US		3a) Supplier Code 0090020286		4) Date 2022-07-06	
5) Part K0323NP123456-1234	6) Complete part name	7) Serial No			
8) Kit No. 12345678	9a) Item No. 1	9) Purchase order/delivery date	10) Proj No. KB2260701	11) Model SMRR/SMRR	12) Version No. 00000
10) Production Lot Size 1	14) No of Pieces Submitted 1	15) Government Inspection	16) Material Location	17) Crit Code	
13) Description Part No: K0323NP123456-1234 Kit LDC Sheet/Paragraph: N/A Zone: N/A QtyPer: 1 QtyDef: 1 Supplier E-Mail: Adam.Birenbaum@ngc.com Text INITIATOR: BIRENBAUM, ADAM C [US] (SP) PHONE: 9999999999 FAX: 8888888888  IS: Hole on K0323NP123456-1234 Shim is oversized to .198".  S/B: .192 +/- .004"  See Attachments for photos					
20) Disposition Text					
21) Corrective Action					
22) Disposition Accomplished (Supplier Inspection Supervisor)					

9. If you have attachments to submit, click  **Attachments** to include sketches/graphical files. The file types allowed in MES-NC are; .gif, .bmp, .jpg, .tif, .tiff and .pdf.

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MES-NC

SDS

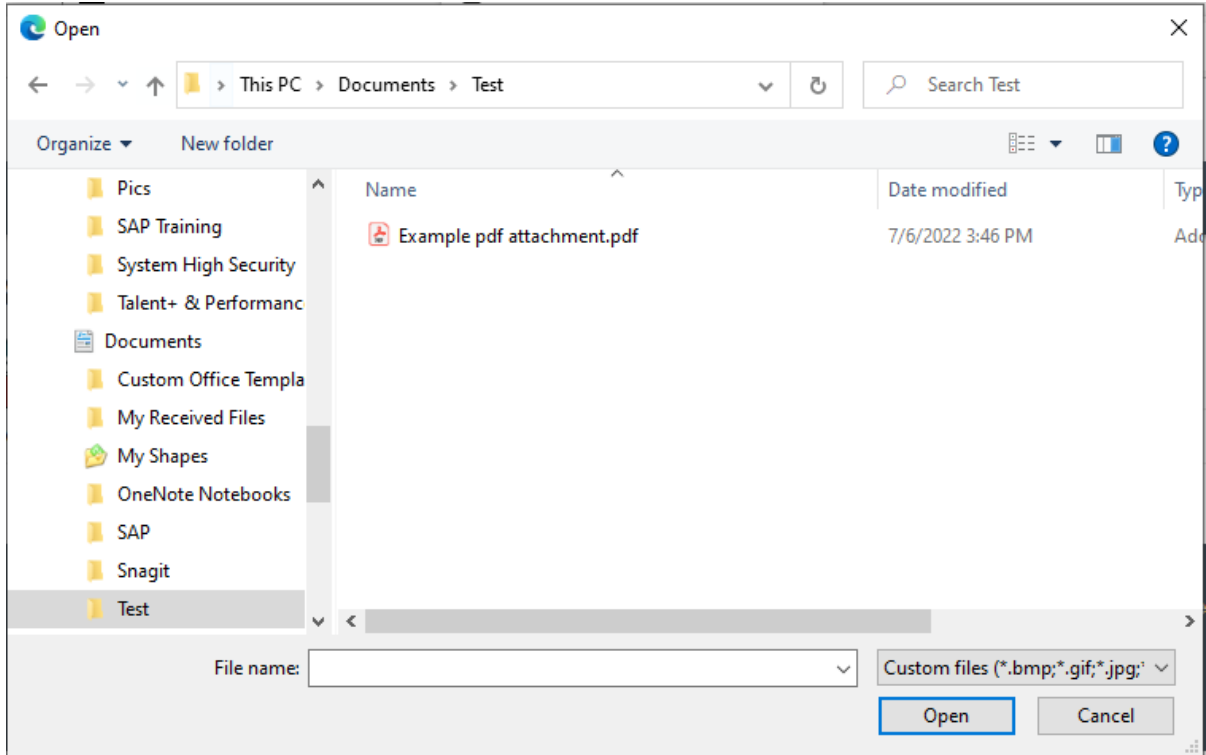
[Home](#) [Back](#) File:  No file chosen

No.	File Name	Creator	Date	Size (bytes)	View	Delete

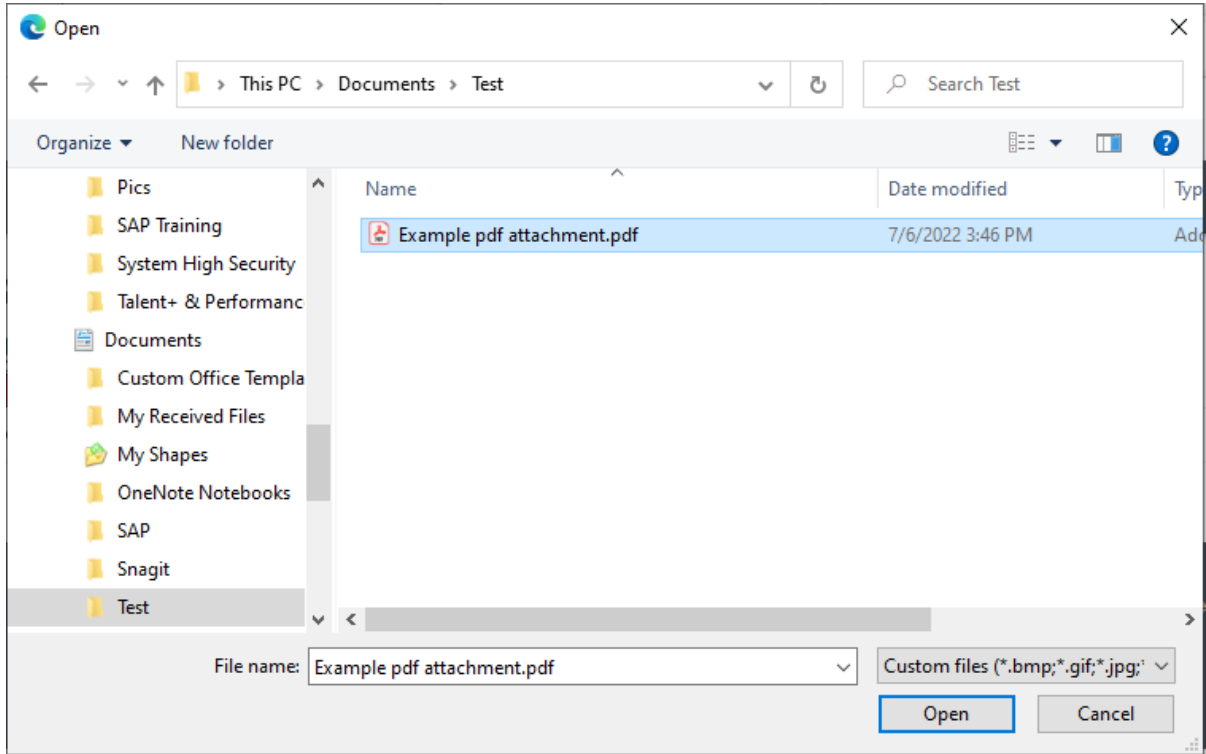
- 9.1 Click on

**Choose file from your computer or server**

**Title:** MESNC Strategic Deterrent Systems for Sentinel Program Training (SMRRs) - Supplemental Guideline



## Choose file

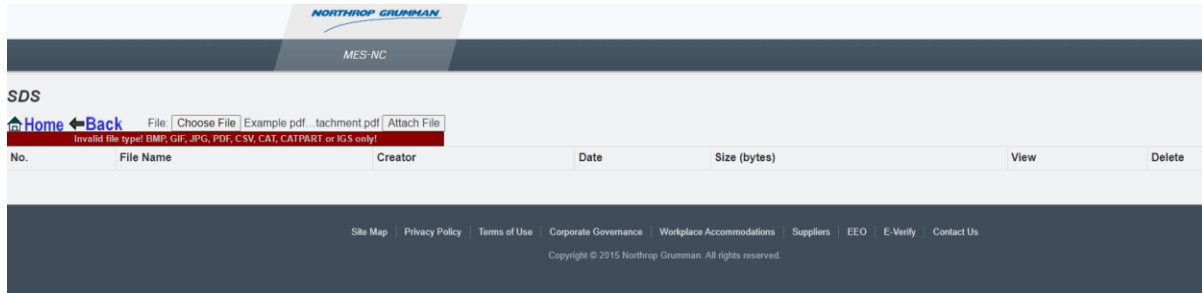


Click on a file to attach,  Example pdf attachment.pdf

10. Click 

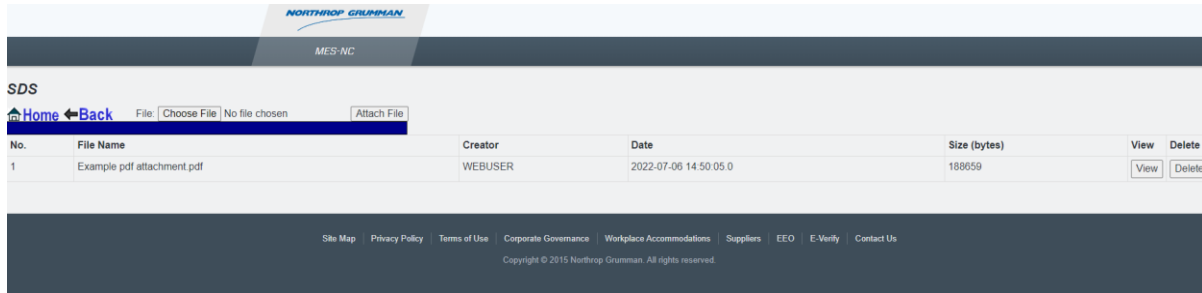


## Attachments



11. Click **Attach File**

## Upload Status will display when completed



12. Click **View** To verify the correct file is attached. If any other files require attaching, repeat steps to add additional attachments.

13. When done attaching all files; Click **← Back**

**Title: MESNC Strategic Deterrent Systems for Sentinel Program Training (SMRRs) - Supplemental Guideline**

**SMRR**

Disc# 1 [Create Same As](#) **Attachments**

<b>Supplier Material Review Report</b>		Aerospace Systems Sector	1) SMRR No 1800224	2) Sheet 1 of 1	2a) Revision
3) Supplier 1234 South Rd Test Vendor 2 -Centreville VA 20120 20120 US		4) Supplier Code 0090020286		4) Date 2022-07-06	
5) Part K0323NP123456-1234		6) Complete part name			
7) PO No 12345678	8a) Item No 1	8) Purchase order delivery date	10) Proj No KB2260701	11) Model SMRR/SMRR	12) Version No 00000
13) Production Lot Size 1	14) No of Pieces Submitted 1		15) Government Inspection	16) Material Location	17) Cr# Code
18) Description Part No: K0323NP123456-1234 Lot / LDC: Sheet/Paragraph: N/A Zone: N/A QtyRej: 1 QtyDef: 1 Supplier E-Mail: Adam.Birenbaum@ngc.com Text: INITIATOR: BIRENBAUM, ADAM C [US] (SP) PHONE: 9999999999 FAX: 8888888888  IS: Hole on K0323NP123456-1234 Shim is oversized to .198". S/B: .192 +/- .004"  See Attachments for photos					
22) Disposition Text					
25) Corrective Action					
26) Disposition Accomplished (Supplier Inspection Supervisor)					



Now would be a good time to print the document for future reference. The document will not be viewable once NGSP starts working on it and until disposition has been completed.

**SDS**

Site Index > SDS > Load NC

Disc# 1 [Create Same As](#) **Attachments**

<b>Supplier Material Review Report</b>		Aerospace			
3) Supplier 1234 South Rd Test Vendor 2 -Centreville VA 20120 20120 US					
5) Part K0323NP123456-1234		6) Complete part name			
8) PO No 12345678	8a) Item No 1	9) Purchase order delivery date			
13) Production Lot Size 1	14) No of Pieces Submitted 1				
18) Description Part No: K0323NP123456-1234 Lot / LDC: Sheet/Paragraph: N/A Zone: N/A QtyRej: 1 QtyDef: 1 Supplier E-Mail: Adam.Birenbaum@ngc.com Text: INITIATOR: BIRENBAUM, ADAM C [US] (SP)					

14. If needed, click [Create Same As](#) to start creating a new SMRR with already populated information from the already submitted SMRR

**SDS**

Site Index > SDS

### Create NonConformance Tag

High Priority

Supplier Name	Test Vendor 2
Supplier Address	1234 South Rd Centreville VA 20120 20120 US
Supplier Code	0090020286
*Part Number	K0323NP123456-1234
*Purchase Order No	12345678
Item No (PO Line Num)	1
*Sales Order / Network	KB2260701
*Project ID	GBSDX
*Production Lot Size	1
*No of Pieces Submitted	1

Supplier Contact Info

*Name	BIRENBAUM, ADAM C [US] (SP)
*Phone	Phone
*Fax	Fax
*E-Mail	Adam.Birenbaum@ngc.com


[Next](#)

**MES NC Home Page**

User: BIRENBAUM, ADAM C [US] (SP)

Supplier Code: 90020286  
Test Supplier Company



<p>El Segundo Palmdale New Town, ND</p>	 F/A-18 HORNET	 B-2 SPIRIT	 F-35 JOINT STRIKE FIGHTER	 F-5B/T-38 TIGER/TALON	 STS-12
<p>Rancho Bernardo</p>	 RQ-4B GLOBAL HAWK	 BQM-74/34 TARGETS	 X-47B J-UCAS	 CHUKAR TARGETS	
<p>Moss Point</p>	 MQ-8 FIRESOULT				
<p>Space Park</p>					
<p>St. Augustine Bethpage Melbourne</p>	 E-2C HAWKEYE	 E-2D ADVANCED HAWKEYE	 EA-6B PROWLER	 EA-18G GROWLER	 E-8C - JSTARS
<p>GBSD</p>					

The following are instructions for viewing a previously submitted tag and statuses. Click the Site where tag was submitted.

**NORTHROP GRUMMAN**

MES-NC

## SDS

Site Index

Note - Suppliers must disclose to Northrop Grumman Corporation if an SMRR submission was previously rejected by their internal customer.

User: BIRENBAUM, ADAM C [US] (SP)      Supplier Code: 90020286  
Hello Test Supplier Company

Create NC Tag      View NC Tag

15. Click "View NC Tag"

**NORTHROP GRUMMAN**

MES-NC

## SDS

Site Index > SDS

Tag No      Create Date

Enter a tag number      From      To

Part No      Close Date

Enter a part number      From      To

16. Enter Tag Number or click search button search all active tags

## Search Results

SDS

Site Index > SDS

Tag No:  Create Date: From  To

Part No:  Close Date: From  To

Hide Closed/Voided

Tag No	Priority	Status	Create Date	Model	Part No	Close Date
1800224		II	2022-07-06	SMRR/SMRR	K0323NP123456-1234	
1800214		VD	2022-05-09	SMRR/SMRR	IDS.JFJFDJ	
1800210		VD	2022-04-19	SMRR/SMRR	K0308NE000916-1001	
1800209		VD	2022-04-19	SMRR/SMRR	FOR TESTING PURPOSES	
1800206		VD	2022-04-11	SMRR/SMRR	858760-01	
1800205		VD	2022-04-07	SMRR/SMRR	100 KN PROLINE TESTING SYSTEM	
1800204		VD	2022-04-07	SMRR/SMRR	123	
1800203	High	VD	2022-04-07	SMRR/SMRR	TEST	
1800202	High	VD	2022-04-07	SMRR/SMRR	PRODUCTION TESTING	
1800201		VD	2022-04-05	SMRR/SMRR	M70166 TEST	

17. Select tag to review

**Tag is displayed**

SDS

Site Index > SDS > Load NC

Disc# 1 Create Same As Attachments

Supplier Material Review Report		Aerospace Systems Sector	1) SMRR No. 1800224	2) Sheet 1 of 1	3) Revision
7) Supplier 1234 South R Test Vendor 2 - Centerville VA 2012 20120101		8) Supplier Code 0090020286		9) Date 2022-07-06	
5) Part K0323NP123456-1234		6) Complete part name		7) Serial No.	
1) PO No. 12345678	2) Item No. 1	3) Purchase order delivery date	10) Proj. No. KBZ260701	11) Mode SMRR/SMRR	12) Vehicle No. 00000
13) Production Lot Size 1	14) No of Pieces Submitted 1	16) Government Inspection	18) Material Location	17) Ord. Code	
15) Description: Part No: K0323NP123456-1234 Lot / LDC: Block/Paragraph: N/A Zone: N/A Qty/Kit: 1 Buyer Email: Adam.Birenbaum@ngc.com Text: INITIATOR: BIRENBAUM, ADAM C [US] (SP) PHONE: 9999999999 FAX: 8888888888  IS: Hole on K0323NP123456-1234 shim is oversized to .198".  S/B: .192 +/- .084"  See Attachments for photos					
21) Disposition Text					
20) Corrective Action					
23) Disposition Accomplished (Supplier Inspection Supervisor)					



When a tag has a disposition applied it will be displayed in the Disposition Text field

Definition of tag status for each tag is displayed. An error will occur stating 'cannot load' for any status as indicated below with a No.

Code	Definition	Viewable by supplier	Acceptable to Ship
II	Inspection Initiate	Yes	No
MC	Manufacturing concurrence	No	No
PR	Preliminary Review	No	No
MR	Material Review	No	No
EN	Engineering Material Review	No	No
CU	Customer	No	No
MF	Manufacturing rework	Yes	No
CL	Closed	Yes	Yes
IS	Inspection supersede	No	No
VD	Void	Yes	No
ID	Interim Disposition	Yes	No
SI	Special Installation	No	No



**Note: supplier is only authorized to ship with a CL "Closed" status unless directed by MRB and/or Buyer**

**Result**

You have a permanent record in OASIS/ MES-NC for this nonconformance. You may inquire this record at any time.

**Comments**

None



## Appendix A - Requirements on Discrepancy Definition and Information Needed

### Requirements for Discrepancy Definition:

- Clear, detailed Is & Should-be statement regarding what the discrepancy entails with specific dimensions, tolerances, and units. The Should-be statement shall reference the applicable requirement(s) such as drawing dimension, datum, notes, specs, etc. to which the Is statement is nonconforming to
- Part number(s) affected
- Part nomenclature(s) affected
- Effectivity of nonconforming part/assembly
- Criticality of part(s) if applicable (fracture critical, safety critical, etc.)
- Location of discrepancy (X, Y, Z if available)
- References to model, parts lists, specs, opposite parts, metrology data, file attachments, etc. as applicable
- Recommend disposition and rationale
- Must also include Root Cause & Corrective Action information.

### Requirements for file attachments/sketches:

- Must include photograph of discrepancy on product (Note: if photographs are not allowed due to classified environments, please contact your Northrop Grumman Supplier Quality representative)
  - Must be in focus & clear with Global Views and Detail Views to include applicable identification of related parts, subject discrepancies, orientation, etc.
  - Must label axes/orientation
  - As applicable, include caliper/scale (ruler) in photo or any other similar tool that would help in analyzing and dispositioning the SMRR
- Must include sketch/screenshot of discrepancy on engineering definition
  - Must be clear
  - Must label axes/orientation
  - Include scale as necessary
- Must include any other files that are referenced in the discrepancy text or are beneficial to aiding the discrepancy definition

## Appendix A - Requirements on Discrepancy Definition and Information Needed

Additionally, for the defect types highlighted below the specific information needed is also key in expediting the proper disposition:

Defect Type	Defect-Specific Information Needed			
<b><u>HOLES</u></b>				
Extra Hole	Actual Size	Minimum Edge distance and Pitch distance		
Short edge distance	Minimum Edge distance and Pitch distance	Actual part thickness		
OOT Holes	Elongated or True and Round?	Actual Size (Max/Min for elongated)	Minimum Edge distance and Pitch distance	
Double Drilled Holes	Pitch distance or Max width if intersected		Minimum Edge distance and Pitch distance	
Deep countersink	Depth	Fastener	Actual part thickness	
<b><u>COMPOSITE SPECIFIC</u></b>				
Delamination	Length X Width X Depth	Distance to edges	Distance to nearest fasteners	
Fiber Splitting	Length X Width	Ply Depth		
Unbonds	Length X Width X Depth	Distance to edges	Distance to nearest fasteners	
Fiber orientation error	Ply type	Ply # affected and/or OML vs. IML		
Missing plies	Ply type	Ply # affected and/or OML vs. IML		
Torn Copper Mesh	Length X Width	Distance to edges	Distance to nearest fasteners	Is NDI acceptable?
Porosity	Length X Width	Depth, if determinable	dB level to penetrate, if subsurface	
<b><u>GENERAL</u></b>				
Gouges	Length X Width X Depth	Distance to edges	Distance to nearest fasteners	Is NDI acceptable?
Indentations	Length X Width X Depth	Distance to edges	Distance to nearest fasteners	Is NDI acceptable?
Misplaced parts	Amount and direction of mis-location	Edge distances and pitch distances		
Electrical Conductivity OOT	Actual conductivity			
OOT Trim	Edge distances on affected fasteners			
Interference	Length X Width X amount of interference			