SIKORSKY SURVEY REPORT

SIKORSKY A LOCKHEED MARTIN COMPANY

*****This document contains no technical data subject to the ITAR or the EAR.*****

INITIAL SURVEY ADDITIONS PAGE: 1 OF 1

SUPPLIER: ELEMENT MATERIALS TECHNOLOGY
TRADE NAME: ELEMENT HUNTINGTON BEACH
ADDRESS: 15062 BOLSA CHICA ST
COUNTRY: US
CONTACT: JENNIFER KENT
TITLE: QUALITY AASURANCE MANAGER
E-MAIL: Jennifer.Kent@Element.com
SURVEYOR: JOHN MERRITT

LM CODE: LM0022563
SAC CODE: SP2098
FLIGHT SAFETY: YES [ ] NO [X]
PHONE: (714) 892-1961
CELL:
FAX.:
SURVEY DATE: 11/25/2020

SPECIAL PROCESS SURVEYS/ASSESSMENTS:		DISPOSITION CODE:				REMARKS FIELD:
CODE:	SPECIFICATION:	A	C	W	D	(SEE SURVEY INSTRUCTIONS)
LAB 1	ASTM-E-8	X				5, 7, 8 INCLUDE SUBSIZE
LAB 3	ASTM-E-882, ASTM-E-743, ASTM-E-851	X				7, 8 LECO, AA, OES, ICP
LAB 5	ASTM-E-3 (Including Titanium)	X				7, 8 INCLUDE TITANIUM
LAB 7	ASTM-E-10, ASTM-E-18, ASTM-E-384	X				5, 7, 8
Note:	*Initial Survey of LAB 3 & to Add Titanium*					
	to Lab 5 approval scope					

DISPOSITION CODES: A = APPROVED, C = CONDITIONAL APPROVAL, W = WITHHELD, D = DISAPPROVED

REMARK CODES:

1. INTERNAL MANUFATURE USE ONLY
2. APPROVAL OF FACILITIES ONLY - A WRITTEN PROCEDURE FOR EACH PART NUMBER MUST BE APPROVED.
3. INTERPRETATION OF INDICATIONS IN ACCORDANCE WITH SS8802, SS8805, OR SS8806
4. 4A - LACK OF ACTIVITY, 4B - PROCESS NO LONGER PERFORMED, 4C - QUALITY PROBLEM
5. NOT SURVEYED AT THIS TIME, CONTINUED APPROVAL BASED ON ***4/10/2020 Survey***
6. PROCESS APPROVAL BY EXCEPTION, EXPLANATION/SQM AUTHORIZATION INCLUDED IN SURVEY PACKAGE *(brief description)*
7. SURVEY SUPPORTED OR APPROVED BY A NADCAP CONTRACTUALLY RECOGINIZED EQUIVALENT *Element holds A2LA ISO 17025 Certification in Mechanical & Chemical Testting as well as Nadcap MTL Cert.*
8. SURVEY SUPPORTED OR APPROVED BY NADCAP CERTIFICATION(s): ***3658183899 MTL***
9. *(Other / Comments)*

APPROVED UNITS (e.g. FURNACES, TANKS, ETC.): Equipment Listing Provided

RESPONSIBLE NDT LEVEL 3: N/A

PRODUCT/PROCESS CONFORMITY ASSESSMENTS/SURVEYS: **DISPOSITION CODE:**

TYPE:
(CHECK BELOW AS APPLICABLE)

	INITIAL SSQR-01 ASSESSMENT: (CHECK GROUP BELOW)	A	C	W	D
[ ]	GROUP 1 FS PRODUCT/PROCESS CONFORMITY SURVEY				
[ ]	GROUP 1 PRODUCT/PROCESS CONFORMITY SURVEY				
[ ]	GROUP 2 PRODUCT/PROCESS CONFORMITY SURVEY				
[X]	OTHER: **Desk-Survey**	X			

Approval is electronic in P2P Survey Management System

SQFR Signature & Date if Form Requested & Released: *(Not Required, Only When Provided Upon Request)* 12/21/2020

From: Sami Syammach
To: Jerahmey Cunningham; Jessie Valverde; Chheang Sun; Cong Lam
Cc: Kevin Knight; Daniel Meza Bohon; Hugo Velez
Subject: RE: 4400072558 (21022199)
Date: Wednesday, January 20, 2021 11:53:45 AM
Attachments: image001.png
SSQR-01 Rev. 5.pdf
Sikorsky M&P Index.pdf
Element Huntington Sikorsky Testing Approval.pdf

Jerahmey,

Cong and I just had a call with Sikorsky regarding the fracture toughness approval status of Element. We were told by Sikorsky that Fracture Toughness testing is not a special process and that NADCAP approval is sufficient for Element to perform this test. They then pointed us to the Specifications that detail this. I have attached SSQR-01 Rev. 5, where at section 14.0 it states that special processes that require Sikorsky approval are listed as a "Q" in the M&P index. I have also attached the M&P index where if you check page 195 for ASTM E 399, you can see that it is not listed as "Q" which means that only NADCAP approval with the attached general Sikorsky lab approval is required to perform fracture toughness testing to ASTM E 399. This is the information that Sikorsky provided to us, and I hope that is sufficient to show that no special approval is required for this test. We should be able to proceed with the testing given this information. I wish that they would have just sent a short email confirmation saying yes you are good, but this is how they instructed us on how to check. Let me know if you see any issues, or still have concerns starting the testing.

Given this information would you be able to provide an estimate to when the toughness testing would be able to be performed and completed?

Thanks,

Sami Syammach
Product Metallurgist

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From: Jerahmey Cunningham <jerahmey.cunningham@element.com>
Sent: Tuesday, January 19, 2021 8:58 AM
To: Sami Syammach <SamiSyammach@WeberMetals.com>; Jessie Valverde <jessievalverde@WeberMetals.com>; Chheang Sun <ChheangSun@WeberMetals.com>
Cc: Kevin Knight <KevinKnight@WeberMetals.com>; Daniel Meza Bohon <danielmeza@WeberMetals.com>; Hugo Velez <HugoVelez@WeberMetals.com>
Subject: RE: 4400072558 (21022199)

Hello Sami,

Thank you for the updated information below. We are releasing the order for cutting today and will have the fatigue blanks cut and returned to Weber by Thursday. We will push to have the tensile and macro/micro completed by Friday.

Please keep me posted on how we should proceed with the fracture toughness. For now we will just cut the fracture toughness blank and hold for your instructions.

Thanks,

From: Sami Syammach [mailto:SamiSyammach@WeberMetals.com]
Sent: Tuesday, January 19, 2021 7:41 AM
To: Jerahmey Cunningham <jerahmey.cunningham@element.com>; Jessie Valverde <jessievalverde@WeberMetals.com>; Chheang Sun <ChheangSun@WeberMetals.com>
Cc: Kevin Knight <KevinKnight@WeberMetals.com>; Daniel Meza Bohon <danielmeza@WeberMetals.com>; Hugo Velez <HugoVelez@WeberMetals.com>
Subject: RE: 4400072558 (21022199)
Importance: High

Good Morning Jerahmey,

Any chance to get an update on below request? In addition, can we get an ECD for the below, even if the testing being piecemealed. I really appreciate any help Element can provide with this request.

1. Fatigue Blanks
2. T9/T10 Tensiles
3. Balance of Tensiles
4. Macros/micros
5. Toughness

Thanks,

Sami Syammach
Product Metallurgist

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SamiSyammach@WeberMetals.com
www.webermetals.com

From: Sami Syammach
Sent: Monday, January 18, 2021 5:27 PM
To: Jerahmey Cunningham <jerahmey.cunningham@element.com>; Jessie Valverde <jessievalverde@webermetals.com>
Cc: Kevin Knight <KevinKnight@webermetals.com>; Daniel Meza Bohon <DanielMeza@webermetals.com>; Hugo Velez <HugoVelez@webermetals.com>
Subject: RE: 4400072558 (21022199)

Jerahmey,

Sorry for all the confusion on these. It looks like we are still waiting on clarification from Sikorsky, but Weber's interpretation is that the NADCAP and overall Sikorsky approval for this is sufficient since there is no Sikorsky Special Process Code for fracture toughness. Unfortunately, these have become a big topic with the schedule being in jeopardy of falling behind. Based on this, can you proceed with the rest of the testing for this order? While we are waiting on a response, can you perform the fracture toughness and list as for information only? If Sikorsky agrees with our interpretation, we could have it updated and allow you to certify. If possible, can we get the fatigue blanks cut and shipped back to Weber as soon as possible. Additionally the T9 and T10 tensile specimens are of particular interest, so any help in getting preliminary data for them ahead of the rest of the testing would be great. Let me know if that is acceptable.

SPECIAL PROCESS CODES				
PROCESS CATEGORY	**SIK CODE**	**LMP2P CODE**	**PROCESS NAME**	**SPECIFICATION**
	*HT1	HTBS120000	Titanium	AMS 2801, AMS-H-81200
	*HX	HTBS277400	Nickel & Cobalt Alloys	AMS 2774
	*TT	HTBM840700	Stress/Embrittlement Relief Bake etc.	SS8407 (NOTE: G, N)
LABORATORY TESTING	*LAB 1	SQBB000800	Tensile	ASTM-E-8
	*LAB 3	SQBB054800	Chemical	ASTM-E-882, ASTM-E-743, ASTM-E-851
	*LAB 5	SQBB000300	Metallographic	ASTM-E-3 (Including Titanium)
	*LAB 7	SQBB001000	Hardness	ASTM-E-10, ASTM-E-18, ASTM-E-384
	*LAB 7 (C)	SQBB001001	Hardness (Critical)	ASTM-E-18, SS9211
	*LAB 8	SQBD153700	Conductivity	MIL-STD-1537, SS8810, AMS 2658
	*LAB 9	BNBM860100	Composite Testing	Per drawing and/or applicable specifications
	LAB 10	NGBM337900	Approved Testing/Laboratory Facility	QATI 3379

Thanks,

Sami Syammach
Product Metallurgist

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From: Jerahmey Cunningham <jerahmey.cunningham@element.com>
Sent: Monday, January 18, 2021 4:27 PM
To: Jessie Valverde <jessievalverde@WeberMetals.com>; Blake Gaspar <BlakeGaspar@WeberMetals.com>
Cc: Sami Syammach <SamiSyammach@WeberMetals.com>; Kevin Knight <KevinKnight@WeberMetals.com>; Daniel Meza Bohon <danielmeza@WeberMetals.com>; Hugo Velez <HugoVelez@WeberMetals.com>
Subject: RE: 4400072558 (21022199)

Hello Jessie,

I have this order on hold regarding our Sikorsky approval to perform the fracture toughness testing. Blake reached out to his contact at Sikorsky. Do you want us to start cutting on this order so we can extract the fatigue blank?

Thanks,

From: Jessie Valverde [mailto:jessievalverde@WeberMetals.com]
Sent: Monday, January 18, 2021 4:17 PM
To: Jerahmey Cunningham <jerahmey.cunningham@element.com>
Cc: Sami Syammach <SamiSyammach@WeberMetals.com>; Kevin Knight <KevinKnight@WeberMetals.com>; Daniel Meza Bohon <danielmeza@WeberMetals.com>; Hugo Velez <HugoVelez@WeberMetals.com>
Subject: 4400072558 (21022199)
Importance: High

Good afternoon Jerahmey,

Regarding PO 4400072558, do you know when we can expect the Fatigue Blanks delivered to Weber? It would really help us a lot if we could get it this week.

Regards,
Jessie Valverde

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