

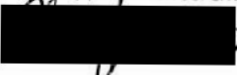
DCA24LA318

AIR TRAFFIC CONTROL

ATC Specialist Service Review - Attachment 1

ORD ATCT Logs and Records

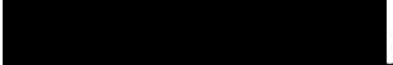
May 14, 2025

DAILY RECORD OF FACILITY OPERATION				PAGE NO Page 1 of 3
				DATE Sep 25, 2024
LOCATION	IDENTIFICATION	TYPE FACILITY	OPERATING POSITION	CHECKED BY
Chicago, IL	ORD	ATCT	Operations Manager	Toni K. Ferrel
UTC TIME	REMARKS			
0500	M. BELKNAP ON. WCLC. WEST FLOW, LANDING RWY 28C DEPARTING RWY 27L AT INT TWY TT. RWY 04L/22R CLOSED AVAILABLE FOR TAXI, ALL OTHER RWYS CLOSED. NOISE ABATEMENT PROCEDURES IN EFFECT. CFPL: EFSTS DE-ICE SCANNER OTS. CFPL: RWY 10C ALS OTM CFPL: MULT REPORTS OSCILATIONS 27R G/S, LAST 400'. CFPL: RWY 27L RWSLS AT TWY VV ON THE NORTH SIDE- MULTIPLE LIGHTS OUT. CFPL: 1 LIGHT ON 9R RWSL BAR BTWN SS & FF OTS. CFPL: SOUTH TOWER ASDE POS 40 FROZEN. MCC NOTIFIED. CFPL: ILS RWY 10C CAT II/III OFM. CFPL: RWY 10C ALSF OFM. CFPL: NATCT CAB DOOR DOESN'T CLOSE ON ITS OWN CFPL: 10R ALS OTM -- MB			
E 0524	FREQ 120.75 OTM. -- MB			
0548	RWY 22L/04R OPEN. -- MB			
0553	RWY 27L/09R CLOSED FOR INSPECTION. -- MB			
E 0608	FREQ 120.75 RTS. -- MB			
0657	RWY 27L/09R OPEN. -- MB			
0702	T. WADDLE ON. RWY 28C CLOSED. PRE DUTY WX BRIEFING COMPLETED. -- TW			
0755	RWY 28C OPEN. -- TW			
E 0855	RWY 10R ALS RTS. -- TW			
1035	E. TOLL ON, WCLC. -- EC			
1051	ALL RWYS OPEN EXCEPT FOR RWY 4L WHICH IS CLOSED AND AVAIL FOR TAXI. -- EC			
1100	NATCT OPN, WCLC. SATCT OPN, WCLC. -- EC			
M 1106	ORD-M-2024/09/25-0001 -- AAL3062 -- JZ			
I CERTIFY that entries above are correct, that all scheduled operations have been accomplished except as noted, and that all abnormal occurrences and conditions have been recorded.		SIGNATURE(S) OF WATCH SUPERVISOR(S) 		

FAA Form 7230-4

DAILY RECORD OF FACILITY OPERATION				PAGE NO Page 2 of 3
				DATE Sep 25, 2024
LOCATION		IDENTIFICATION	TYPE FACILITY	OPERATING POSITION
Chicago, IL		ORD	ATCT	Operations Manager
				CHECKED BY AIR TRAFFIC MANAGER Toni K. Ferrel
UTC TIME	REMARKS			
	1107 NOTAM & GENOT CK CMPLT. -- EC			
E	1112	SOUTH TOWER ASDE POS 40 RTS. -- EC		
E	1112	NATCT CAB DOOR RTS. -- EC		
	1114	SUCCESSIVE OR SIMULTANEOUS DEPARTURES FROM PARALLEL RUNWAYS WAIVER IN USE. -- EC		
	1131	NOISE ABATEMENT IN SUSP DUE TO VOLUME. -- EC		
	1141	SUNRISE: AUTH TO LUAW AT INT RWY 28R AND TWY N5 SUSP. -- EC		
	1222	J. FIGURA ON, ABOVE NOTED. -- JJ		
	1252	PRE-DUTY WX BRF CK CMPLT. -- JJ		
M	1329	ORD-M-2024/09/25-0002 -- UAL1538 -- EC		
E	1340	RWY 27C ALSF OTS. -- EC		
M	1345	ORD-M-2024/09/25-0004 -- AAL1987 -- EC		
E	1457	RWY 27C ALSF RTS -- EC		
	1626	RWY 27L CLOSED. -- EC		
	1658	RWY 27L OPEN. -- EC		
	1810	CONFIG CHG: ARR 9L 10C 10R. DEP 10L/DD 9R/SS. -- JJ		
E	1900	RWY 27L ALS OFM -- KU		
E	1905	IDS4 POS 40 (GCS) TRACKBALL OTS -- KU		
	1912	M. KUSKA ON. WCLC. -- KU		
	1932	M. LOCKTON ON, BOVE NOTED. NOTAM & GENOT CK CMPLT. -- ML		
M	2055	ORD-M-2024/09/25-0006 -- ENY3936 -- KU		
E	2126	RWY 27L ALS RTS -- KU		
	2131	PRE-DUTY WX BRF CK CMPLT. -- KU		
M	2145	ORD-M-2024/09/25-0007 -- UAL2736 -- KU		
	2152	CONFIG CHNG: ARR 9L 10C 10R DEP 10L/DD 9C/FF -- KU		
I CERTIFY that entries above are correct, that all scheduled operations have been accomplished except as noted, and that all abnormal occurrences and conditions have been recorded.		SIGNATURE(S) OF WATCH SUPERVISOR(S) 		

FAA Form 7230-4

DAILY RECORD OF FACILITY OPERATION				PAGE NO Page 3 of 3
				DATE Sep 25, 2024
LOCATION	IDENTIFICATION	TYPE FACILITY	OPERATING POSITION	CHECKED BY
Chicago, IL	ORD	ATCT	Operations Manager	AIR TRAFFIC MANAGER Toni K. Ferrel
UTC TIME	REMARKS			
M 2242	ORD-M-2024/09/25-0008 -- AAL1693 -- KU			
M 2242	ORD-M-2024/09/25-0009 -- AAL1693 -- KU			
E 2326	RWY 22R PAPI OFM -- KU			
M 2340	ORD-M-2024/09/25-0010 -- DLH2C -- KU			
	2344 SUNSET: AUTH TO LUAW AT INT RWY 9C AND TWY FF AND INT RWY 10L AND TWY DD IN EFCT. -- KU			
E 0013	RWY 22R PAPI RTS -- KU			
	0136 RWYS 9L AND 10R CLSD. -- ML			
	0235 RWY 4R CLSD. -- ML			
	0250 ARR 10L. DEP 9R AND 10C. -- ML			
	0300 NATCT CLSD. SATCT CLSD. -- ML			
	0300 NOISE ABATEMENT SUSP, CONFIGURATION. -- ML			
	0302 RWY 9C CLSD. -- ML			
	0303 RWY 4L CLSD, NOT AVAIL FOR TAXI. -- ML			
	0307 RWY 10C CLSD. SUCCESSIVE OR SIMULTANEOUS DEPARTURES FROM PARALLEL RUNWAYS WAIVER NO LONGER IN USE. -- ML			
	0307 RWY 10C CLSD. -- ML			
E 0309	RWY 28C ALS OTM. -- ML			
	0313 NOISE ABATEMENT IN EFCT. -- ML			
	0315 A. SASMITAMANGGALA DN. -- PC			
M 0339	ORD-M-2024/09/25-0011 -- AAL208 -- PC			
	0459 COB. -- PC			
I CERTIFY that entries above are correct, that all scheduled operations have been accomplished except as noted, and that all abnormal occurrences and conditions have been recorded.		SIGNATURE(S) OF WATCH SUPERVISOR(S) 		

FAA Form 7230-4

Air Traffic Mandatory Occurrence Report

ORD-M-2024/09/25-0006 - DRAFT

1. Reporting FAC ID			2. Date UTC (dd/mm/yyyy)								3. Time UTC				4. Significant Occurrence?				
☐ O	☐ R	☐ D	2	5	0	9	2	0	2	4	2	0	2	6	☒ Yes ☐ No				
5. MOR reported by (select one):															6. Did equipment outage potentially contribute to this event?				
☒ Controller providing services			☐ FLM			☐ Internal Facility Review			☐ Electronically Detected			☐ Unknown							
☐ CIC			☐ Aircraft Owner/Operator			☐ Other (Describe in summary)			☐ Yes			☒ No							
☐ External Facility Referral			☐ Hotline (Describe in summary)			☐ Other (Describe in summary)			☐ Yes			☒ No							
Memory Aid Required?					☒ Yes ☐ No ☐ Unknown					Memory Aid Used?					☒ Yes ☐ No ☐ Unknown				
Training in progress?					☐ Yes ☒ No ☐ Unknown					Nearest Airport: <u>ORD</u>					Possible NMAC? ☐ Yes ☒ No				
Alert #:																			
Airport Environment MORs																			
MOR type - A/C landed/departed or attempted to land/depart other than expected/intended																			
Aircraft information:																			
Aircraft ID		Aircraft Type/Suffix		IFR/VFR		Facility communicating with A/C		Position communicating with A/C				Frequency							
ENY3936		E170		☐ IFR ☒ VFR		ORD		POS #11 3LC/SLC				120.75							
Heading		Altitude		Phase of Flight				Traffic Pattern Location				Evasive Action							
Additional Information																			
Event Location RWY 10L																			
METAR Observation																			
KORD 251951Z VRB05KT 10SM FEW050 24/11 A2992 RMK AO2 SLP128 T02390106 \$																			
Pilot Deviation Information																			
Brasher Warning Given? ☒ Yes ☐ No																			
Brasher given by:				Position:				Frequency:											
ORD				SLC				120.75											
Pilot Information Available? ☒ Yes ☐ No																			
Pilot Name: Brad Baschand										Phone Number:			Certificate Number:						
Address:																			

Air Traffic Mandatory Occurrence Report

ORD-M-2024/09/25-0006 - DRAFT

Pilot Deviation			
Was this a possible pilot deviation?			
☒ Yes ☐ No	Preliminary Number: _____		Phase of Flight: _____ Approach and Landing
Airspace Class: _____	Aircraft #: ENY3936	ORG Choices: SW	Office Number: 39
Type of Deviation: Surface: Wrong RWY/Taxiway Landing		Control Surface: Operating Control Tower	
Was possible pilot deviation validated? ☒ Yes ☐ No		Military Pilot Deviation? ☐ Yes ☒ No	
Pilot Deviation Summary			
Pilot Summary: <i>Chicago O'Hare International Airport, IL (ORD)</i>			
Previous Note(s)			
On Sep 26, 2024 @ 09:35 EST/EDT, Joseph Jochheim @ ORD wrote: ORD QC determined Potentially Significant Event.			
Surface Event			
Was this a possible Surface Event?			
☒ Yes ☐ No	Classification: _____		
NMAC			
Was this a verified NMAC?			
☐ Yes ☒ No	NMAC Number: _____		
Apt/NAVAID: _____	Direction: _____		Distance: _____
Pilot of ENY3936			
Pilot Name: _____		Phone Number: _____	Certificate Number: _____
Address: _____			
Pilot of			
Pilot Name: _____		Phone Number: _____	Certificate Number: _____
Address: _____			
NMAC Description: _____			

Air Traffic Mandatory Occurrence Report

ORD-M-2024/09/25-0006 - DRAFT

Summary

J1. Summary - provide a brief summary for all MORs in this section that will provide enough information for QA to understand what occurred. Include information about items that require additional information in the specific MOR you are reporting.

At approx. 2026Z ENY3936 was given a landing clearance for RWY 10C, but landed RWY 10L instead. SLC observed ENY3936 lined up for RWY 10L when ENY3936 was short final and verbally coordinated with 3LC prior to ENY3936 landing. No overflight was observed, there was no traffic on/crossing RWY 10L, no LoSS. SLC issued exiting instructions of Y short of V and gave ENY3936 the brasher warning. ORD ATM notified at 2033Z, QC Manager notified at 2034Z, JSEN notified at 2040Z (JSEN instructed call to ROC not necessary), DEN notified at 2042Z. ORD ATM instructed ORD OS they would contact the District. City Ops was notified at 2045Z. IGC taxied ENY3936 to gate L25 without further incident.

At 2047Z Capt. Brad Baschand of ENY3936 called ORD OS (x[REDACTED]). Capt Baschand indicated they had received a couple of RWY changes enroute, and had difficulty obtaining proper signal/identifier for RWY 10C ILS. They did not realize they were on RWY 10L until after they had landed and were rolling out.

Print Date and Time
10/16/2024 15:38:29

Workbook Status: Active

TPR Workbook
SXH/GS ~ SYSTEM ~ TPR DATA

Description

Location
CHICAGO

Serial Number

Template Notes

JO Order 6750.49 POC AJW-152 NAVAIDS, 405-954-3644 Added Frequency Separation nominal on GS Delays, VSWR, Freq sheet Changed power, monitor, and BITE references to have nominal values Updated Clearance Power resolution Dual Power and Digital Voltmeter readings are acceptable. Change 1 deletes UA CLR/MA CRS ant pwr ratios. Also, all CAT I deletes auto-reset parameter. PT Changed CSB and/or SB0 BITE displayed power to two decimal points so that the minimum and maximum displayed powers are calculated correctly. Added nominal to shutdown and restoration Added Frequency Separation nominal added Path Shift Alarms header to match 6750.49 updated range/site specific nominals updated mod clr per chang 4 corrected site specific

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet CEGS - Normal Radiated Parameters

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	RF Power						Modulation			Monitor			Remarks
		Carrier Power (%)	Carrier Power Volt Reference	Sideband Power (mW)	Sideband Power Volt Reference	Clearance Power (W)	Clearance Power Volt Reference	Modulation Equality (DDM/Hz)	Carrier SDM (%)	Clearance SDM (%)	Path (DDM/Hz)	Width (DDM) 150 Hz	Clearance SDM 150 Hz	
Nominal		3.0	0.455 V	34	0.270 V	0.37	0.353 V	.000	80.0	80.0	.000	.175	80.0	
Minimum		2.7		31		0.34		.004/90	78.0	78.0				
Maximum		3.3		37		0.40		.004/150	82.0	82.0				
09/12/2024 06:52	GWS	3.0	455	34	270	0.37	353	.000	80.0	80.0				Pre flight inspection as required PMs not completed
09/18/2024 04:40	RMH	3.0	0.455	34	0.270	0.37	0.353	.000	80.0	80.0	.000	.177	80.0	Post flight check
10/01/2024 03:13	SCW	3.0	0.454V	34	0.270 V	0.37	0.353 V	.000	80.0	80.0	.000	.175	79.5	As Found
10/01/2024 05:17	SCW	3.0	0.454 V	34	0.270 V	0.37	0.353 V	.000	80.0	80.0	.000	.175	79.4	As Left Q/M/SA

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet Normal Radiated Phasing

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	Phasing (DDM)							Remarks
		CSB/SBO		Antenna		Loop (dB/Deg)			
		Middle Antenna	Lower Antenna	Lower or Upper To Middle	Upper to Lower	Lower Antenna	Middle Antenna	Upper Antenna	
	Nominal	.001/150	.000	.033/150	.142/90				
	Minimum	.031/90	.008/90	.006/90	.167/90				
	Maximum	.033/150	.008/150	.061/150	.121/90				
09/12/2024 08:05	GWS	.001/150	.000						Pre flight inspection as required PMs not completed
09/13/2024 03:06	CAP			.033/150	.142/90				Pre flight
10/01/2024 04:31	SCW	.000	.000	.032/150	.140/90				As Found/ As Left SA

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet Capture Effect Monitor Alarms

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	Wide			Narrow			Path Shift Alarms High Angle (150 Hz)		Path Shift Alarms Low Angle (90 Hz)		Middle Antenna Dephase (150 Hz)			Upper Antenna Attenuation		Remarks		
		Sideband Power (mW)	Sideband Power Volt Reference	Width Monitor (DDM) 150 Hz	Sideband Power (mW)	Sideband Power Volt Reference	Width Monitor (DDM) 150 Hz	Modulation Equality (DDM)	Path Monitor (DDM)	Modulation Equality (DDM)	Path Monitor (DDM)	MA Advance (Deg)	Advance Width Monitor (DDM)	MA Delay (Deg)	Delay Width Monitor (DDM)	Upper Antenna (dB)		Path Monitor (DDM) 90 Hz	
		Nominal	23	0.222 V	.147	42	0.304 V	0.194	0.025	.025	0.025	.025	19	.153	19	.151	2.2	.027	
		Minimum	23																
		Maximum				42			0.030		0.030		19		19		2.2		
10/01/2024 03:29	SCW	23	0.223 V	.147	42	0.299 V	0.191	0.023	.023	0.023	.022	19	.153	19	.151	2.2	.026	Q	

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet Capture Effect Monitor Alarms (2)

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	Modulation		Low RF Power		Remarks
		Low Course SDM (%)	Low Clearance SDM (%)	Low Course (W)	Low Clearance (W)	
Nominal		76.0	76.0	1.5	0.18	
Minimum		75.0	75.0	1.5	0.18	
Maximum						
10/01/2024 03:35	SCW	75.3	75.1	1.5	0.18	Q

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet GS Antenna Power Ratios

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	Carrier				Sideband						Remarks	
		Lower Antenna	Middle Antenna	Lower : Middle Ratio	Lower : Middle (dB)	Lower Antenna	Upper Antenna	Lower : Upper Ratio	Lower : Upper (dB)	Middle Antenna	Middle : Upper Ratio		Middle : Upper (dB)
	Nominal	0.00	6.00	4.10	6.0	0.00	0.00	1.00	0.0	6.00	4.00	6.0	
	Minimum			3.90	5.8			0.95	-0.2		3.80	5.8	
	Maximum			4.30	6.2			1.05	0.2		4.20	6.2	
09/12/2024 07:51	GWS	0.00	6.00			0.00	0.00			6.00			Pre flight inspection as required PMs

Print Date and Time
10/16/2024 15:39:51

Workbook Status: Active

TPR Workbook
SXH/GS ~ SYSTEM ~ TPR DATA

Description

Location
CHICAGO

Serial Number

Template Notes

JO Order 6750.49 POC AJW-152 NAVAIDS, 405-954-3644 Added Frequency Separation nominal on GS Delays, VSWR, Freq sheet Changed power, monitor, and BITE references to have nominal values Updated Clearance Power resolution Dual Power and Digital Voltmeter readings are acceptable. Change 1 deletes UA CLR/MA CRS ant pwr ratios. Also, all CAT I deletes auto-reset parameter. PT Changed CSB and/or SB0 BITE displayed power to two decimal points so that the minimum and maximum displayed powers are calculated correctly. Added nominal to shutdown and restoration Added Frequency Separation nominal added Path Shift Alarms header to match 6750.49 updated range/site specific nominals updated mod clr per chang 4 corrected site specific

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet CEGS - Normal Radiated Parameters

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	RF Power						Modulation			Monitor			Remarks
		Carrier Power (W)	Carrier Power Volt Reference	Sideband Power (mW)	Sideband Power Volt Reference	Clearance Power (W)	Clearance Power Volt Reference	Modulation Equality (DDM/Hz)	Carrier SDM (%)	Clearance SDM (%)	Path (DDM/Hz)	Width (DDM) 150 Hz	Clearance SDM 150 Hz	
Nominal		3.0	0.455 V	34	0.270 V	0.37	0.353 V	.000	80.0	80.0	.000	.175	80.0	
Minimum		2.7		31		0.34		.004/90	78.0	78.0				
Maximum		3.3		37		0.40		.004/150	82.0	82.0				
09/12/2024 07:25	GWS	455		34	270	0.37	353	.000	80.0	80.0				Pre flight inspection as required PMs not completed
09/18/2024 04:37	RMH	3.0	0.455	34	0.270	0.37	0.353	.000	80.0	80.0	.000	.177	80.0	Post Flight Check
10/01/2024 03:17	SCW	3.0	0.455 V	34	0.270 V	0.37	0.353 V	.000	80.0	80.0	.000	.175	80.0	As Found
10/01/2024 05:17	SCW	3.0	0.456 V	34	0.271 V	0.37	0.353 V	.000	80.0	79.9	.000	.175	79.4	As Left Q/M/SA

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet Normal Radiated Phasing

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	Phasing (DDM)							Remarks
		CSB/SBO		Antenna		Loop (dB/Deg)			
		Middle Antenna	Lower Antenna	Lower or Upper To Middle	Upper to Lower	Lower Antenna	Middle Antenna	Upper Antenna	
	Nominal	.001/150	.000	.037/150	.144/90				
	Minimum	.038/90	.008/90	.001/90	.168/90				
	Maximum	.033/150	.008/150	.066/150	.122/90				
09/12/2024 08:15	GWS	.001/150	.001/150						Pre flight inspection as required PMs not completed
09/13/2024 03:07	CAP			.035/150	.143/90				Pre flight
10/01/2024 04:34	SCW	.000	.000	.035/150	.140/90				As Found/as left SA

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet Capture Effect Monitor Alarms

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	Wide			Narrow			Path Shift Alarms High Angle (150 Hz)		Path Shift Alarms Low Angle (90 Hz)		Middle Antenna Dephase (150 Hz)				Upper Antenna Attenuation		Remarks
		Sideband Power (mW)	Sideband Power Volt Reference	Width Monitor (DDM) 150 Hz	Sideband Power (mW)	Sideband Power Volt Reference	Width Monitor (DDM) 150 Hz	Modulation Equality (DDM)	Path Monitor (DDM)	Modulation Equality (DDM)	Path Monitor (DDM)	MA Advance (Deg)	Advance Width Monitor (DDM)	MA Delay (Deg)	Delay Width Monitor (DDM)	Upper Antenna (dB)	Path Monitor (DDM) 90 Hz	
Nominal	23	0.222 V		.147	42	0.304 V	.191	0.025	.025	0.025	.025	19	.153	19	.151	2.2	.028	
Minimum	23																	
Maximum					42			0.030		0.030		19		19		2.2		
10/01/2024 03:52	SCW	24	0.229	.151	41	0.298 v	.191	0.024	.023	0.024	.024	19	.154	19	.151	2.2	.026	Q

Template GS 314JE H "Glide Slope CAT III, Mark 20A Capture Effect" Sheet Capture Effect Monitor Alarms (2)

Facility Type GS Location Ident SXH Code 314JE Class H Location CHICAGO

Date	Signed By	Modulation		Low RF Power		Remarks
		Low Course SDM (%)	Low Clearance SDM (%)	Low Course (W)	Low Clearance (W)	
Nominal		76.0	76.0	1.5	0.18	
Minimum		75.0	75.0	1.5	0.18	
Maximum						
10/01/2024 04:20	SCW	76.0	76.1	1.6	0.18	Q

Print Date and Time
10/20/2024 21:29:11

Workbook Status: Historic
Archive Date and Time: 04/09/2018 06:05:42

TPR Workbook
SXH/IM ~ SYSTEM ~ TPR DATA (History)

Description

Location
CHICAGO

Serial Number

Template Notes

POC AJW-143 NAVAIDS, 405-954-3644
Changed power, monitor, and BITE
references to have nominal values Changed
Carrier more than 1 Watt Alarm Point
column to match 6750.49 power resolution
Note: Some columns have more resolution
than required for tolerance purposes.

Template IM "ILS 75 MHz Inner Marker"

Sheet Sheet 1

Facility Type IM Location Ident SXH Code 315EE Class A Location CHICAGO

Date	Signed By	Carrier								Modulation		Shutdown or Transfer Time (sec)	VSWR Alarm	Loss of Ident	Continuous Ident	Battery Load Test	Remarks	
		More than 1 Watt			Less Than 1 Watt			VSWR	Frequency (MHz)		MOD (%)							Frequency (Hz)
		Power (W)	Power Reference Alarm Point (W)		Power (W)	Power Reference Alarm Point (W)			Conventional	Off Set								
Nominal					0.16	.318	0.10	1.00	75.000000		95.0	3000.0	15	2.00				
Minimum					0.15		0.08		74.996250		91.0	2970.0						
Maximum					0.17			1.75	75.003750		99.0	3030.0	30	2.50				
04/09/2018 06:05	BII				0.16	.317	0.09				96.1	3000.0	18	2.00	Pass	Pass	SA	
06/03/2018 22:14	BII				0.16	.317		1.07	74.998912		95.0	3000.0		2.00			A	
09/25/2018 16:16	SB				0.15	.317	0.09				96.1		16		Pass	Pass	SA	
04/13/2019 12:58	BII				0.16	.318	0.09				95.0		17	1.97	Pass	Pass	Q/SA	
07/04/2019 22:16	BII				0.16	.318		1.07	75.000000		95.0	3000.0		1.97			Q/A	
10/06/2019 04:16	SB				0.16	.318	0.09						18	2.00	Pass	Pass	Q/SA/Pre-flight/OJT	
09/27/2020 02:12	BII				0.16	.319	0.09	1.07	74.998997		95.0	3000.0	17	1.97	Pass	Pass	Pass	SA/A
04/18/2021 07:19	BII				0.16	.317	0.09	1.07			95.0	3000.0	17	1.97	Pass	Pass	SA	
06/25/2021 09:03	BII				0.16	.318		1.10	74.998994		96.1	3000.0		1.97	Pass	Pass	Pass	A
10/22/2021 07:27	BII				0.16	.319	0.09	1.10			95.0	3000.0	17		Pass	Pass	SA	
04/24/2022 04:48	BII				0.16	.319	0.09	1.10			95.0	3000.0	18		Pass	Pass	SA	
06/26/2022 13:37	BII				0.16	.318		1.07	74.998992		95.0	3000.0		1.97	Pass	Pass	Pass	A
10/08/2022 13:13	BII				0.16	.319	0.09	1.07			95.0	3000.0	17	1.97	Pass	Pass	SA	
05/23/2023 05:23	BII				0.16	.319	0.09	1.07	74.999346		95.0	3000.0	17	1.97	Pass	Pass	SA/A	
07/14/2023 04:47	SCW															Pass	A	
10/16/2023 22:09	RMH				0.16	.319	0.09				96.2		18	2.00	Pass	Pass	SA Adjusted R76 pot to correct VSWR alarm to 2.00 Found at 1.95	
05/04/2024 22:36	SCW				0.16	.319	0.09	1.06	74.998838		95.0	2999.2	18	2.00	Pass	Pass	A/SA	
05/04/2024 23:01	SCW															Pass	A	

Commanded Power (W)	
Power Reference Measurement	
Power (W)	
Power (W)	
N/A	
Power (W)	
% MOD	
Power (W)	

ERROR: undefined
OFFENDING COMMAND: '~

STACK:

Print Date and Time 10/11/2024 14:57:39		Workbook Status: Active	
TPR Workbook			
SAJ/LOC ~ SYSTEM ~ TPR DATA			
Description	Location	Serial Number	Template Notes
	CHICAGO		6750.49 Para 5-172 for ground check point requirements. Centerlines, edge of course and low clearance point. POC AJW-143 NAVAIDS, 405-954-3644 Changed power, monitor, and BITE references to have nominal values Dual Power and Digital Voltmeter readings are acceptable. Auto-reset in 3-21a(3) has been withdrawn in chg 1 - PT

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Normal Radiated (Course)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Course											Remarks	
		Carrier Power (W)	Carrier Power Volt Reference	Sideband Power (mW)	Sideband Power Volt Reference	Modulation Equality (DDM/Hz) (Balance)	Modulation SDM (%)	Ident Modulation (%)	Monitor					
									Course Monitor (DDM/Hz)	Width Monitor (DDM) 150 Hz	CSB/SSB Phasing Far Field (DDM/Hz)	CSB/SSB Phasing Inline (DDM/Hz)		
Nominal	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.158	.007/150	.012/150			
Minimum	13.5		45		.001/90	38.0	6.0			.101/90	.010/150			
Maximum	16.5		55		.003/150	42.0	10.0			.139/150	.015/150			
08/26/2019 05:47	ME	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.158	.007/150	.012/150	Post Ref F/C	
09/10/2019 08:43	ME	15.0	345	50	158	.001/150	39.8	7.9	.002/150	.155			M	
10/14/2019 10:23	ME	15.0	346	50	159	.001/150	40.0	8.0	.001/150	.155			M	
10/15/2019 08:11	ME	15.0	346	50	158	.001/150	40.0	8.0	.001/150	.155			Q	
11/08/2019 05:05	ME	15.0	346	50	159	.002/150	40.0	7.9	.001/150	.155			M	
12/10/2019 04:45	ME	15.0	346	50	159	.002/150	39.8	7.9	.001/150	.155			M	
01/07/2020 10:04	ME	15.0	346	50	159	.001/150	40.0	7.9	.001/150	.155			Q	
01/12/2020 04:28	ME	15.0	346	50	159	.001/150	40.0	7.9	.001/150	.155			M	
02/13/2020 10:30	RIR	15.0		50		.001/150	40.0	8.0	.001/150	.155			M	
03/06/2020 04:57	ME	15.0	347	50	159	.001/150	40.0	8.0	.001/150	.156		.013/150	SA	
03/08/2020 04:39	ME	15.0	346	50	159	.001/150	40.0	7.8	.001/150	.155			M	
05/03/2020 05:15	GWS	15.0	346	50	158	.001/150	40.1	7.9	.002/150	.156			As left; power restoration check	
06/09/2020 09:49	ME	15.1	346	50	158	.001/150	40.0	7.9	.002/150	.144			M	
07/10/2020 06:26	ME	15.1	345	50	158	.001/150	39.9	8.0	.002150	.155			M, Q	
07/23/2020 07:48	CJG	15.1	345	50	158	.001/150	39.9	7.9	.002/150	.155			Pre flights, As found	
07/23/2020 08:12	CJG	15.0	343`									.012/150	As Adjusted; Pre-Flights Phasing was as found at .012/150.	
08/17/2020 03:13	ME	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			M	
09/18/2020 05:27	ME	15.0	344	50	158	.001/150	39.9	7.8	.001/150	.156		.012/150	M, SA, A - As Found	
09/18/2020 07:06	ME	15.0	343	50	158	.001/150	39.9	7.8	.001/150	.156			M, SA, A - As Left	
10/15/2020 09:29	ME	15.0	344	50	159	.001/150	40.0	7.9	.001/150	.156			M, Q	
11/14/2020 05:17	ME	15.0	344	50	159	.001/150	39.9	7.9	.001/150	.155			M	
12/15/2020 10:50	ME	15.0	345	50	159	.001/150	40.0	7.9	.001/150	.155			M	
12/15/2020 10:52	ME	15.0	344	49	159	.001/150	40.0	8.0	.001/150	.154			M	
01/12/2021 05:35	ME	15.0	346	50	159	.001/150	40.0	7.9	.001/150	.156			M,Q	
02/09/2021 04:48	ME	15.0	345	50	159	.001/150	40.1	7.9	.001/150	.155			M	
03/12/2021 07:24	ME	15.0	346	50	159	.001/150	40.0	8.0	.001/150	.156		.012/150	M, SA - As Found/Left	
04/10/2021 09:31	ME	15.0	342	50	157	.001/150	40.0	7.8	.001/150	.156			M, Q	
05/17/2021 07:49	ME	15.0	342	49	156	.001/150	40.0	8.0	.001/150	.156			M	
05/17/2021 07:51	ME	15.0	341	49	156	.001/150	40.0	8.0	.001/150	.156			M	
06/07/2021 10:00	ME	15.0	341	49	157	.001/150	40.0	7.9	.001/150	.155			M	
06/17/2021 03:41	ME	15.0	342	50	157	.001/150	39.9	7.9	.001/150	.155			A - As found	
06/17/2021 07:58	ME	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			A - As Left	
07/09/2021 07:34	ME	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			M, Q	
08/09/2021 09:19	ME	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			M	
09/08/2021 04:19	ME	15.0	342	50	158	.001/150	39.9	8.0	.001/150	.156			M	
10/11/2021 05:08	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156		.012/150	M, Q, SA	
11/13/2021 04:55	JDM	15.0	344	50	158	.001/150	40.0	7.9	.001/150	.156			M	
12/20/2021 04:58	ME	15.0	345	50	159	.001/150	40.1	7.8	.001/150	.155			M	
01/05/2022 09:27	JDM	15.0	344	50	158	.001/150	40.0	7.9	.001/150	.156			Q - as found/left	
01/07/2022 07:52	CJG	15.0	344	50	158	.001/150	40.0	7.9	.001/150	.154			M	
01/19/2022 06:51	AA	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157		.012/150	Pre Flight	
02/12/2022 06:58	GWS	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157		.012/150	Pre Flight Inspection as required	
02/14/2022 06:27	BII	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157			M	
02/21/2022 07:34	CJG	15.0	344	50	158	.001/150	40.0	7.9	.000	.156			As Found/As Left	
03/17/2022 10:06	ME	15.1	343	50	158	.001/150	40.0	7.9	.001/150	.156			M	
04/06/2022 07:56	ME	15.0	343	50	158	.001/150	40.1	8.0	.001/150	.156		.012/150	Q, SA	
04/19/2022 09:16	ME	15.0	344	50	156	.001/150	40.0	7.9	.001/150	.154			M	

05/13/2022 08:53	ME	15.0	342	50	158	.001/150	40.0	7.9	.001/150	.155			M
05/27/2022 02:54	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			A,OJT
06/16/2022 08:51	ME	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			M
06/18/2022 12:06	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			as found/as left (CM ID261840532)
06/29/2022 19:11	JKW	0.0	0	0	0	.000	0.0	0.0					TX1 OFF, TX2 On Antenna.
06/29/2022 19:22	JKW	15.0		50		.001/150	39.9	7.9	.000	.155			TX1 Restart, TX2 On Antenna.
06/29/2022 19:28	JKW		342		158				.000	.155			Switched Back to TX1 as Main and TX2 as STBY.
07/06/2022 02:24	BII	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.155			As left (No adjustment)
07/16/2022 13:59	ASD	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			M
07/20/2022 05:32	BII	15.0		50		.001/150	40.0	7.9	.001/150	.156			M/Q
08/12/2022 02:01	CJG	15.0	342	50	158	.001/150	40.0	7.9	.001/150	.156			M
09/20/2022 17:14	ME	15.0	342	50	158	.001/150	40.0	8.0	.001/150	.156			M
10/09/2022 03:12	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			M
11/10/2022 04:13	ASD	15.0	0.343 V	50	0.158 V	.001/150	40.0	7.9	.001/150	.156			M
12/01/2022 05:53	CJG	15.0	344	50	159	.001/150	40.0	7.9	.001/150	.156			M/Q
12/10/2022 09:35	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.155		.011/150	SA
01/13/2023 10:54	JDM	15.0	343	50	159	.001/150	40.1	8.0	.001/150	.155			M
02/09/2023 02:41	JDM	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			M/Q
03/10/2023 03:25	CAP	15.0	344	50	157	.001/150	40.0	8.0	.001/150	.155			M
04/12/2023 04:05	CAP	15.0	343	50	157	.001/150	40.0	7.9	.001/150	.156			M
05/13/2023 03:00	JDM	15.0	343	50	157	.001/150	40.0	7.9	.001/150	.156			M
05/19/2023 02:36	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			SA
06/11/2023 02:44	SCW	15.0	343	50	158	.001/150	40.0	7.8	.001/150	.155			M
06/16/2023 14:26	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156		.012/150	As left, A, OJT
06/24/2023 02:20	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			Trying to complete annual FFM time delay but GS is OTS.
07/11/2023 03:21	SCW	15.0		50		.001/150	40.0	7.9	.001/150	.156			M/TNLS
08/11/2023 02:34	SCW	15.0		50		.001/150	40.0	7.8	.001/150	.156			M/TNLS
08/24/2023 02:59	ASD	15.0	0.343 V	50	0.157 V	.001/150	40.0	7.9	.001/150	.156		.012/150	Preflights
08/28/2023 02:12	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.155			As found F/C
08/28/2023 05:53	JDM	15.0	345	50	157	.001/150	40.0	7.9	.001/150	.155			As left. Flight check terminated due to RFI. Performed ground check to ensure readings on ground were within tolerance.
09/01/2023 14:10	CAP	15.0	343	50	157	.001/150	40.0	7.9	.001/150	.156			M / Pre RFI troubleshoot with FC
09/09/2023 03:53	CJG	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156		.012/150	Pre Flight Check PMs / M
09/14/2023 18:32	ASD	15.0	0.343 V	50	0.157 V	.001/150	40.0	7.9	.001/150	.157			Verification before RTS to CAT I
09/22/2023 02:19	CJG	15.0	0.343 V	50	0.158 V	.001/150	40.0	7.9	.001/150	.157		.012/150	Pre Flight Check PMs
09/25/2023 03:55	ASD	15.0	0.343 V	50	0.158 V	.001/150	40.0	8.0	.001/150	.157			Before FC Verification
09/30/2023 02:27	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.157		.013/150	Pre FI
10/01/2023 02:30	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157	.026/90	.012/150	Re-verified GC after FFP. SBO phasing moved 1.5 degrees to get edges closer to nominal.
10/04/2023 05:42	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157			As left
10/17/2023 15:06	ASD	15.0	0.343	50	0.158 v	.001/150	40.0	7.9	.001/150	.157			Verification before RFI investigation. Adjusted powers to reference. Very minor adjustments necessary.
10/18/2023 03:02	SCW	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157		.012/150	Pre-Flight Check
10/19/2023 05:38	SCW	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157			Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 74/-2.0 degrees
11/03/2023 04:22	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157		.012/150	M/Q/SA/Pre-Flight
11/06/2023 02:33	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.157			As found/ As left
12/09/2023 05:07	CAP	15.0	342	50	158	.001/150	40.0	7.9	.001/150	.157			M
01/08/2024 10:10	CAP	15.0	343	50	159	.001/150	40.0	7.8	.001/150	.157			M
02/09/2024 04:55	SCW	15.0		50		.001/150	40.0	8.0	.001/150	.157			M
02/21/2024 04:06	ASD	15.0	0.344 V	50	0.158 V	.001/150	40.0	7.9	.001/150	.157			Verification for Q
03/09/2024 05:15	GWS	15.0		50		.001/150	40.0	8.0	.001/150	.157			M
04/11/2024 02:43	JDM	15.0	343mV	50	158mV	.001/150	40.0	8.0	.001/150	.156			M
05/03/2024 10:17	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.157			M
05/19/2024 06:56	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157			Q
06/07/2024 04:43	CAP	15.0	343	50	158	.001/150	40.0	7.8	.001/150	.156			M
06/26/2024 08:13	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157		.012/150	As found, SA
07/10/2024 09:44	CAP	15.0	342	50	158	.001/150	40.0	7.8	.001/150	.156			M
08/04/2024 10:21	CAP	15.0	343	50	158	.001/150	40.0	7.9	.002/150	.156			M/Q/A
08/16/2024 05:52	CAP	15.0	343	50	159	.001/150	40.0	7.9	.001/150	.156			As left/ A
09/06/2024 08:58	CAP	15.0	342	50	158	.001/150	39.9	7.8	.001/150	.157			M
09/24/2024 03:37	TBH	15.0	343 mV	50	158 mV	.001/150	40.0	7.9	.001/150	.157			As Found TBH OJT w/ ASD
09/24/2024 07:12	TBH	15.0	343 mV	50	158 mV	.001/150	40.0	7.9	.001/150	.157			As Left TBH OJT w/ ASD

10/04/2024 04:38	CAP	15.0	50	.001/150	40.0	7.9	.001/150	.157		M
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Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Normal Radiated (Clearance)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Clearance										Monitor		Remarks
		Carrier Power (W)	Carrier Power	Sideband Power (mW)	Sideband Power	Modulation Equality (DDM/Hz)	Modulation Equality	Modulation SDM (%)	Ident Modulation (%)	Width Monitor 1 (DDM) 150 Hz	Width Monitor 2 (DDM) 150 Hz	CSB/USB Phasing Far Field (DDM/Hz)	CSB/USB Phasing inline (DDM/Hz)	
		Nominal	7.5	374	70	180	.004/150	40.0	8.0	.181	.227	.000	.074/150	
		Minimum	6.8	63			.002/150	38.0	6.0			.047/90	.026/150	
		Maximum	8.2	77			.006/150	42.0	10.0			.049/150	.120/150	
08/26/2019 05:48	ME	7.5	374	70	180	.004/150	40.0	8.0	.181	.227	.000	.074/150		Post Ref F/C
09/10/2019 08:45	ME	7.5	374	71	180	.004/150	39.9	7.9	.178	.228				M
10/14/2019 10:24	ME	7.5	375	70	181	.004/150	40.0	7.9	.177	.228				M
10/15/2019 08:12	ME	7.5	376	71	182	.004/150	40.0	7.9	.177	.227				Q
11/08/2019 05:06	ME	7.5	376	70	182	.004/150	40.0	7.9	.176	.226				M
12/10/2019 04:47	ME	7.5	375	70	182	.004/150	40.0	7.9	.176	.227				M
01/07/2020 10:06	ME	7.5	377	71	182	.004/150	40.0	8.0	.177	.228				Q
01/12/2020 04:29	ME	7.5	378	70	182	.004/150	40.0	8.0	.176	.226				M
02/13/2020 10:31	RIR	7.5		70		.004/150	40.0	8.0	.175	.225				M
03/06/2020 04:58	ME	7.5	378	70	183	.004/150	40.0	7.9	.177	.229		.078/150		SA
03/08/2020 04:40	ME	7.5	378	71	182	.004/150	40.0	7.9	.178	.230				M
05/03/2020 05:21	GWS	7.5	374	71	180	.004/150	40.0	8.0	.177	.229				As Left; power restoration check
06/09/2020 09:50	ME	7.6	375	70	180	.004/150	40.0	8.0	.178	.228				M
07/10/2020 06:27	ME	7.6	374	71	180	.004/150	39.9	7.9	.178	.230				M, Q
07/23/2020 07:53	CJG	7.6	373	71	180	.004/150	40.0	7.9	.178	.228				Pre Flights, As Found
07/23/2020 08:17	CJG	7.5	374	70	180							.074/150		As Adjusted Pre F?C; Phasing as found @ .0174/150.
08/17/2020 03:15	ME	7.5	374	71	180	.004/150	40.0	7.9	.179	.230				M
09/18/2020 05:28	ME	7.5	375	71	181	.004/150	40.0	7.9	.179	.228		.075/150		M, SA, A - As Found
09/18/2020 07:07	ME	7.5	374	70	180	.004/150	40.0	7.9	.178	.228				M, SA, A - As Left
10/15/2020 09:30	ME	7.5	374	71	181	.004/150	40.0	8.0	.179	.230				M, Q
11/14/2020 05:18	ME	7.5	375	71	181	.004/150	40.0	8.0	.178	.229				M
12/15/2020 10:50	ME	7.5	377	71	182	.004/150	40.0	7.9	.178	.227				M
12/15/2020 10:53	ME	7.5	375	69	181	.004/150	40.0	8.0	.177	.226				M
01/12/2021 05:38	ME	7.5	377	70	182	.004/150	40.0	8.0	.178	.229				M,Q
02/09/2021 04:49	ME	7.5	377	71	182	.004/150	40.0	8.0	.177	.223				M
03/12/2021 07:24	ME	7.5	378	70	182	.004/150	40.0	8.0	.179	.230		.075/150		M, SA - As Found/Left
04/10/2021 09:32	ME	7.5	370	70	180	.004/150	40.0	8.0	.178	.230				M, Q
05/17/2021 07:49	ME	7.5	372	70	180	.004/150	40.0	8.0	.180	.230				M
05/17/2021 07:52	ME	7.5	372	69	180	.004/150	40.0	7.9	.179	.228				M
06/07/2021 10:01	ME	7.5	369	70	179	.004/150	40.0	7.9	.180	.230				M
06/17/2021 03:42	ME	7.5	371	69	179	.004/150	40.0	7.9	.180	.230				A - As found
06/17/2021 07:59	ME	7.5	374	70	180	.004/150	40.0	8.0	.178	.229				A - As Left
07/09/2021 07:34	ME	7.5	372	71	179	.004/150	40.0	7.9	.178	.227				M, Q
08/09/2021 09:20	ME	7.5	372	70	179	.004/150	39.9	7.9	.179	.226				M
09/08/2021 04:19	ME	7.5	371	70	179	.004/150	40.0	7.8	.179	.229				M
10/11/2021 05:15	JDM	7.5	374	70	180	.004/150	40.0	8.0	.178	.228		.074/150		M, Q, SA
11/13/2021 04:56	JDM	7.5	375	71	180	.004/150	40.0	8.0	.178	.228				M
12/20/2021 04:58	ME	7.5	376	71	180	.004/150	40.0	8.0	.178	.228				M
01/05/2022 09:27	JDM	7.5	376	71	180	.005/150	40.0	7.9	.178	.229				Q - as found/left
01/07/2022 07:54	CJG	7.5	378	71	181	.004/150	40.0	7.9	.177	.277				M
01/19/2022 06:53	AA	7.5	374	70	180	.004/150	40.0	7.9	.178	.227		.074/150		Pre Flight
02/12/2022 07:10	GWS	7.5	374	70	180	.004/150	40.0	7.9	.180	.231		.074/150		Pre Flight Inspection as required
02/14/2022 06:29	BII	7.5	374	70	180	.004/150	40.0	7.8	.178	.230				M
02/21/2022 07:35	CJG	7.5	375	70	181	.004/150	40.0	7.9	.180	.232				As Found/As Left
03/17/2022 10:08	ME	7.5	373	70	180	.004/150	40.0	7.9	.178	.230				M
04/06/2022 07:58	ME	7.5	374	70	180	.004/150	40.0	7.9	.177	.230		.074/150		Q, SA
04/19/2022 09:17	ME	7.5	374	71	181	.004/150	40.0	8.0	.179	.229				M

05/13/2022 08:55	ME	7.5	373	70	180	.004/150	40.0	8.0	.179	.230			M
05/27/2022 02:55	JDM	7.5	373	70	180	.004/150	40.0	7.9	.179	.230			A, OJT
06/16/2022 08:52	ME	7.5	371	70	180	.004/150	40.0	8.0	.179	.230			M
06/18/2022 12:07	JDM	7.5	372	70	180	.004/150	40.1	8.0	.179	.229			as found/as left (CM ID261840532)
06/29/2022 19:12	JKW	0.0	0	0	0	.000	0.0	0.0					TX1 OFF and TX2 On Antenna
06/29/2022 19:23	JKW	7.5		70		.004/150	40.0	8.0					TX1 Restart and TX2 On Antenna.
06/29/2022 19:27	JKW		375		180				.181	.229			Switched Back to TX1 as Main and TX2 as STBY.
07/06/2022 02:26	BII	7.5	375	70	180	.004/150	40.0	7.9	.178	.226			As left (No adjustment)
07/16/2022 14:01	ASD	7.5	375	70	180	.004/150	40.0	8.0	.178	.227			M
07/20/2022 05:33	BII	7.5		71		.004/150	40.0	8.0	.180	.227			M/Q
08/12/2022 02:02	CJG	7.5	375	70	180	.004/150	40.0	7.9	.179	.227			M
09/20/2022 17:14	ME	7.5	374	70	180	.003/150	40.2	7.9	.182	.229			M
10/09/2022 03:13	JDM	7.5	375	70	181	.004/150	40.0	8.0	.179	.227			M
11/10/2022 04:13	ASD	7.5	0.375 V	70	0.180 V	.004/150	40.1	7.9	.179	.230			M
12/01/2022 05:53	CJG	7.5	375	70	181	.004/150	40.0	7.9	.178	.227			M/Q
12/10/2022 09:36	JDM	7.5	375	70	181	.004/150	40.0	8.0	.179	.229		.074/150	SA
01/13/2023 10:56	JDM	7.5	376	70	181	.004/150	39.9	8.0	.178	.228			M
02/09/2023 02:42	JDM	7.5	375	70	181	.004/150	40.0	8.0	.178	.228			M/Q
03/10/2023 03:27	CAP	7.5	375	70	180	.004/150	40.0	8.0	.176	.225			M
04/12/2023 04:07	CAP	7.5	373	70	180	.004/150	40.0	8.0	.180	.230			M
05/13/2023 03:01	JDM	7.5	374	70	180	.004/150	40.0	7.9	.179	.228			M
05/19/2023 02:36	JDM	7.5	374	71	181	.004/150	40.0	7.9	.179	.230			SA
06/11/2023 02:45	SCW	7.5	372	71	179	.004/150	40.0	7.9	.179	.228			M
06/16/2023 14:32	CAP	7.5	374	70	180	.004/150	40.0	7.9	.179	.228		.073/150	As left, A, OJT
06/24/2023 02:22	JDM	7.5	373	70	179	.004/150	40.1	8.0	.181	.228			Trying to complete annual FFM time delay but GS is OTS.
07/11/2023 03:21	SCW	7.5		71		.004/150	40.0	7.9	.179	.228			M/TNLS
08/11/2023 02:39	SCW	7.5		70		.004/150	40.0	8.0	.180	.227			M/TNLS
08/24/2023 03:00	ASD	7.5	0.371 V	70	0.179 V	.004/150	40.0	8.0	.181	.227		.074/150	Pre flights
08/28/2023 02:15	JDM	7.5	374	70	180	.004/150	40.0	8.0	.180	.227			As found F/C
08/28/2023 05:56	JDM	7.5	376	70	180	.004/150	40.0	7.9	.179	.225			As left. Flight check terminated due to RFI. Performed ground check to ensure readings on ground were within tolerance.
09/01/2023 14:12	CAP	7.5	375	71	180	.004/150	40.0	7.9	.181	.227			M / Pre RFI troubleshoot with FC
09/09/2023 03:42	CJG	7.5	374	70	180	.004/150	40.0	8.0	.179	.227		.074/150	Pre Flight Check PMs / M
09/14/2023 18:34	ASD	7.5	0.375 V	70	0.180 V	.004/150	40.0	8.0	.182	.228			Verification before RTS to CAT I
09/22/2023 02:22	CJG	7.5	0.374 V	70	0.180 V	.004/150	40.0	8.0	.182	.227		.073/150	Pre Flight Check PMs
09/25/2023 03:54	ASD	7.5	0.374 V	70	0.180 V	.004/150	40.0	8.0	.179	.228			Before FC Verification
09/30/2023 02:30	CAP	7.5	374	70	180	.004/150	40.0	8.0	.180	.229		.074/150	Pre FI
10/01/2023 02:32	CAP	7.5	374	70	180	.004/150	40.0	8.0	.181	.229	.000	.077/150	Re-verified GC after FFP
10/04/2023 05:48	CAP	7.5	374	70	180	.004/150	40.0	7.9	.182	.230			As left
10/17/2023 15:08	ASD	7.5	0.374 v	70	0.180 V	.004/150	40.0	7.9	.182	.230			Verification before RFI investigation. Adjusted powers to reference. Very minor adjustments necessary.
10/18/2023 03:03	SCW	7.5	374	70	180	.004/150	40.0	7.8	.178	.228		.074/150	Pre-Flight CHeck
10/19/2023 05:39	SCW	7.5	374	70	180	.004/150	40.0	7.8	.178	.227			Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 74/-2.0 degrees
11/03/2023 04:25	CAP	7.5	374	70	180	.004/150	40.0	7.9	.179	.229		.077/150	M/Q/SA/Pre-Flight
11/06/2023 02:36	CAP	7.5	374	70	180	.004/150	40.0	8.0	.179	.229			As found/ As left
12/09/2023 05:11	CAP	7.5	373	70	180	.004/150	40.0	7.9	.179	.231			M
01/08/2024 10:14	CAP	7.5	374	70	180	.004/150	40.0	8.0	.178	.230			M
02/09/2024 04:56	SCW	7.5		70		.004/150	39.9	7.9	.178	.229			M
02/21/2024 04:06	ASD	7.5	0.374 V	70	0.180 V	.004/150	40.0	8.0	.179	.229			Verification for Q
03/09/2024 05:20	GWS	7.5		70		.004/150	40.0	7.9	.178	.229			M
04/11/2024 02:45	JDM	7.5	372mV	70	180mV	.004/150	40.0	8.0	.180	.230			M
05/03/2024 10:17	CAP	7.5	371	70	179	.004/150	40.0	7.8	.178	.229			M
05/19/2024 06:57	CAP	7.5	371	70	179	.004/150	40.0	8.0	.181	.231			Q
06/07/2024 04:45	CAP	7.5	371	70	179	.004/150	40.0	7.9	.181	.230			M
06/26/2024 08:14	CAP	7.5	373	70	180	.004/150	40.0	7.9	.181	.231		.073/150	As found, SA
07/10/2024 09:45	CAP	7.5	373	69	179	.004/150	40.0	7.9	.178	.228			M
08/04/2024 10:21	CAP	7.5	374	70	180	.004/150	40.0	7.9	.179	.227			M/Q/A
08/16/2024 05:54	CAP	7.5	374	70	180	.004/150	40.0	8.0	.179	.228			As left/ A
09/06/2024 08:59	CAP	7.5	373	70	179	.004/150	40.0	8.0	.180	.229			M
09/24/2024 03:39	TBH	7.5	374 mV	70	179 mV	.004/150	40.0	7.9	.179	.228			As Found TBH OJT w/ ASD
09/24/2024 07:14	TBH	7.5	374 mV	70	180 mV	.004/150	40.0	7.9	.179	.228			As Left TBH OJT w/ ASD
10/04/2024 04:40	CAP	7.5		71		.004/150	40.0	7.8	.180	.229			M

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Ground Check

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Left Side 90 Hz (DDM)						Centerline	Right Side 150 Hz (DDM)						Remarks		
		Azimuth Low CLR Angle (deg)	Low Clearance Point	35 Deg	30 Deg	20 Deg	10 Deg		Edge - Course Width	10 Deg	20 Deg	30 Deg	35 Deg	Low Clearance Point		Azimuth Low CLR Angle (deg)	
	Nominal	13	0.231					0.154	.001/150	0.159					0.256	13	
	Minimum	10	0.208					0.144	.003/90	0.149					0.231	10	
	Maximum	35						0.164	.005/150	0.169						35	
08/26/2019 05:35	ME	13	0.231					0.154	.001/150	0.159					0.256	13	Post Ref F/C
08/26/2019 05:56	ME	13	0.205					0.136	.001/150	0.141					0.230	13	Abnormal Case DDM Test
10/15/2019 08:56	ME	13	0.232					0.156	.001/150	0.161					0.257	13	Q
01/07/2020 10:34	ME	13	0.233					0.157	.001/150	0.164					0.256	13	Q
07/10/2020 06:38	ME	13	0.235					0.155	.001/150	0.161					0.254	13	Q
07/23/2020 09:51	CJG	13	0.235					0.153	.001/150	0.153					0.256	13	Pre FC
10/15/2020 09:43	ME	13	0.235					0.158	.000	0.162					0.259	13	Q
01/12/2021 05:55	ME	13	0.233					0.156	.000	0.163					0.257	13	Q
04/10/2021 09:40	ME	13	0.235					0.158	.001/150	0.163					0.258	13	Q
07/09/2021 08:05	ME	13	0.235					0.154	.001/150	0.160					0.259	13	Q
10/11/2021 06:40	JDM	13	0.233					0.159	.001/150	0.162					0.259	13	Q
01/05/2022 10:08	JDM	13	0.232					0.158	.001/150	0.157					0.259	13	Q
01/19/2022 07:42	AA	13	0.232					0.158	.001/150	0.163					0.259	13	Pre Flight
02/12/2022 08:28	GWS	13	0.236					0.154	.000	0.163					0.261	13	Pre Flight Inspection As required
04/06/2022 08:35	ME	13	0.234					0.155	.000	0.163					0.257	13	Q
07/20/2022 07:03	BII	13	0.238					0.159	.001/150	0.161					0.264	13	Q
12/01/2022 05:30	CJG	13	0.237					0.162	.000	0.164					0.260	13	Q
02/09/2023 03:26	JDM	13	0.237					0.162	.000	0.164					0.255	13	Q
05/19/2023 02:44	JDM	13	0.233					0.160	.000	0.160					0.256	13	SA
06/16/2023 14:55	CAP	13	0.235					0.161	.000	0.163					0.261	13	A, OJT
08/24/2023 04:45	ASD	13	0.234					0.161	.000	0.162					0.254	13	Q, Pre flights
08/28/2023 05:44	JDM	13	0.235					0.157	.001/150	0.160					0.256	13	As left. Flight check terminated due to RFI. Performed ground check to ensure readings on ground were within tolerance.
09/09/2023 04:55	CJG	13	0.235					0.153	.001/150	0.156					0.257	13	Pre-Flight
09/14/2023 18:35	ASD	13	0.232					0.151	.001/150	0.154					0.258	13	Verification before RTS to CAT I
09/22/2023 03:18	CJG	13	0.236					0.150	.002/150	0.154					0.249	13	Pre Flight Check PMs
09/25/2023 03:51	ASD	13	0.225					0.150	.001/150	0.152					0.252	13	Verification during FC
09/30/2023 03:16	CAP	13	0.236					0.146	.001/150	0.150					0.258	13	Pre FI
10/01/2023 05:16	CAP	13	0.235					0.155	.001/150	0.157					0.258	13	Re-verified GC after FFP. SBO phasing moved 1.5 degrees to get edges closer to nominal.
10/04/2023 05:41	CAP	13	0.235					0.156	.001/150	0.157					0.256	13	Re-verified GC in lieu of 1000' arc because of loaning vehicle mount PIR antenna to spectrum.
10/18/2023 04:00	SCW	13	0.232					0.157	.001/150	0.159					0.253	13	Pre-Flight
10/19/2023 05:00	SCW	13	0.234					0.153	.001/150	0.158					0.253	13	Post FC after failing equality for transmitter 1/2
11/03/2023 04:33	CAP	13	0.236					0.157	.001/150	0.159					0.256	13	Pre-Flight, Q
11/06/2023 03:18	CAP	13	0.234					0.156	.001/150	0.158					0.257	13	As found before FC/ As left
02/21/2024 04:13	ASD	13	0.229					0.157	.000	0.159					0.258	13	Q
05/19/2024 08:09	CAP	13	0.232					0.156	.001/150	0.156					0.259	13	Q
08/04/2024 09:51	CAP	13	0.233					0.156	.001/150	0.157					0.255	13	Q

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Monitor Alarms (Course)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Course														Remarks
		Wide			Narrow			CW Shift - 150 Hz		CCW Shift - 90 Hz		Far Field Monitor		Low RF Power (W)	Low Modulation: SDM (%)	
		Sideband Power: (mW)	Sideband Power: Volt Reference	Width Monitor (DDM) 150 Hz	Sideband Power: (mW)	Sideband Power: Volt Reference	Width Monitor (DDM) 150 Hz	Modulation Equality (DDM)	Course Monitor (DDM) 150 Hz	Modulation Equality (DDM)	Course Monitor (DDM) 90 Hz	CW Mod Equality (DDM) 150 Hz	CCW Mod Equality (DDM) 90 Hz			
Nominal	38	137	.138	61	174	.170	0.008	0.008	0.006	0.006	0.010	0.008	7.5	37.0		
Minimum	38												7.5	36.0		
Maximum					61			0.008		0.006		0.010	0.008			
08/26/2019 07:41	ME	38	137	.138	61	174	.170									Post Ref F/C
10/15/2019 08:27	ME	38	137	.138	61	175	.171	0.008	0.008	0.006	0.005	0.010	0.008	7.5	37.1	Q
01/07/2020 10:25	ME	38	137	.138	61	174	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	37.0	Q
07/10/2020 07:10	ME	38	136	.137	61	174	.169	0.008	0.009	0.006	0.005	0.010	0.008	7.6	37.0	Q
10/15/2020 10:11	ME	38	137	.139	61	174	.171	0.008	0.008	0.006	0.005	0.010	0.008	7.6	36.7	Q
01/12/2021 06:14	ME	38	137	.138	61	175	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.4	Q
04/10/2021 10:25	ME	38	136	.138	61	173	.170	0.008	.008	0.006	0.005	0.010	0.008	7.6	36.6	Q
07/09/2021 08:24	ME	38	137	.139	61	174	.171	0.008	0.008	0.006	0.005	0.009	0.008	7.6	36.7	Q
10/11/2021 05:45	JDM	38	137	.139	61	174	.171	0.008	0.008	0.006	0.005	0.009	0.008	7.5	36.7	Q
01/05/2022 09:53	JDM	38	136	.138	61	173	.170	0.008	0.008	0.006	0.006	0.010	0.008	7.5	36.7	Q
04/06/2022 08:29	ME	38	137	.138	61	174	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.3	
07/20/2022 06:23	BII	40		.144	61		.168	0.007	.008	0.006	.005	0.010	0.008	7.7	36.5	Q
12/01/2022 06:14	CJG	39	139	.141	61	174	.167	0.008	0.008	0.006	0.005	0.010	0.008	7.6	36.5	Q
02/09/2023 03:34	JDM	38	136	.139	61	173	.171	0.008	0.008	0.006	0.005	0.009	0.008	7.5	36.4	Q
05/19/2023 03:00	JDM	38	136	.138	61	174	.170	0.008	0.008	0.006	0.005	0.008	0.008	7.5	36.4	SA
06/16/2023 13:57	CAP	38	137	.138	61	174	.170	0.008	0.008	0.006	0.006	0.008	0.008	7.5	36.4	A, OJT
08/24/2023 04:10	ASD	38	0.136 V	.138	61	0.173 V	.170	0.008	0.009	0.006	0.005	0.010	0.008	7.5	36.2	Q
11/03/2023 05:03	CAP	38	137	.139	61	174	.172	0.008	0.008	0.006	0.005	0.009	0.007	7.5	36.2	Q
02/21/2024 04:24	ASD	38	0.138 V	.139	61	0.175 V	.172	0.008	0.008	0.006	0.006	0.009	0.008	7.5	36.4	Q
05/19/2024 07:19	CAP	398	139	.143	59	170	.166	0.008	0.008	0.006	0.005	0.009	0.007	8.0	36.2	Q
08/04/2024 09:53	CAP	39	139	.143	58	170	.166	0.008	0.008	0.006	0.005	0.008	0.008	8.0	36.4	Q

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Monitor Alarms (Clearance)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Clearance										Remarks
		Wide				Narrow				Low RF Power (W)	Low Modulation SDM (%)	
		Sideband Power (mW)	Sideband Power Volt Reference	CLR Monitor 1 (DDM) 150 Hz	CLR Monitor 2 (DDM) 150 Hz	Sideband Power (mW)	Sideband Power Volt Reference	CLR Monitor 1 (DDM) 150 Hz	CLR Monitor 2 (DDM) 150 Hz			
Nominal	54	158	.157	.203	104	223	.210	.272	4.0	37.0		
Minimum	54								4.0	36.0		
Maximum					104							
08/26/2019 07:41	ME	54	158	.157	.203	104	223	.210	.272			Post Ref F/C
10/15/2019 08:28	ME	54	159	.158	.204	104	224	.210	.272	4.0	37.0	Q
01/07/2020 10:26	ME	54	159	.158	.204	104	224	.210	.272	4.0	37.0	Q
07/10/2020 07:10	ME	54	158	.157	.205	104	222	.211	.275	4.0	36.9	Q
10/15/2020 10:11	ME	54	158	.160	.206	104	223	.213	.276	4.0	36.9	Q
01/12/2021 06:14	ME	54	159	.159	.204	104	224	.212	.274	4.0	36.4	Q
04/10/2021 10:26	ME	54	157	.159	.205	104	221	.212	.274	4.0	36.9	
07/09/2021 08:23	ME	54	157	.158	.204	104	221	.211	.272	4.0	36.9	Q
10/11/2021 05:51	JDM	54	157	.159	.204	104	221	.213	.273	4.0	36.9	Q
01/05/2022 09:54	JDM	54	158	.159	.204	104	222	.212	.274	4.0	36.9	Q
04/06/2022 08:29	ME	54	158	.157	.206	104	222	.210	.275	4.0	36.9	Q
07/20/2022 06:31	BII	54		.162	.203	102		.211	.269	4.1	36.0	Q
12/01/2022 06:15	CJG	56	162	.163	.207	103	222	.211	.272	4.2	36.1	Q
02/09/2023 03:34	JDM	54	158	.158	.204	104	223	.211	.273	4.0	36.7	Q
05/19/2023 03:04	JDM	54	158	.161	.204	104	222	.214	.275	4.0	36.4	SA
06/16/2023 13:58	CAP	54	157	.159	.204	104	222	.213	.272	4.0	36.7	A, OJT
08/24/2023 04:11	ASD	54	0.158 V	.162	.204	104	0.223 V	.215	.272	4.0	36.3	Q
11/03/2023 05:10	CAP	54	158	.160	.204	103	222	.214	.274	4.0	36.4	Q
02/21/2024 04:25	ASD	54	0.158 V	.160	.205	103	0.223 V	.214	.275	4.0	36.5	Q
05/19/2024 07:25	CAP	55	159	.165	.208	97	214	.208	.269	4.4	36.1	Q
08/04/2024 10:03	CAP	57	161	.164	.206	102	220	.211	.271	4.4	36.1	Q

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet LOC Delays, VSWR, Sideband Null, Freq

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Delays (secs)				VSWR				Record Distance for LOC Composite	LOC Composite SBO Null (inches)	Frequencies (MHz)			Battery Load Test	Remarks
		Shutdown	Restoration	FFM CAT III to CAT II	FFM CAT II to CAT I	CSE CSB	CSE SBO	CLR CSB	CLR SBO			Course RF	Frequency Separation (KHz)	Clearance RF		
Nominal		2.0	20	15	90	1.00	1.00	1.00	1.00	1000	0	111.754000	8.0	111.746000		
Minimum			20	10	75						20L	111.752000	7.0	111.744000		
Maximum		2.0		20	105	1.40	1.40	1.40	1.40		20R	111.756000	9.0	111.748000		
09/18/2020 06:00	ME	1.6	21	14	99	1.10	1.05	1.10	1.11	1000	3L	111.753617	8.0	111.745620	Pass	A
06/17/2021 05:58	ME	1.6	21	18	88	1.10	1.05	1.10	1.10	1250	10R	111.753577	8.0	111.745577	Pass	A
05/27/2022 03:37	JDM	1.6	21	18	93	1.11	1.05	1.10	1.11	1250	13R	111.753502	8.0	111.745520	Pass	A, OJT
06/16/2023 13:25	CAP	1.4	21			1.10	1.05	1.10	1.11		8R	111.753473	8.0	111.745473		A, OJT
08/24/2023 04:21	ASD									1000	0					A, FFM couldnt be completed due to GS being OTS
09/02/2023 04:02	SCW			19	95											A
08/16/2024 03:49	CAP	1.4	21	18	97	1.11	1.05	1.10	1.11	1000	13R	111.753424	8.0	111.745424	Pass	A
09/24/2024 04:12	TBH	1.5	27	13	90							111.753456	8.0	111.745456		
09/24/2024 06:39	TBH	1.5	27	13	90							111.753456	8.0	111.745456		A / TBH OJT w/ ASD
09/24/2024 06:46	TBH					1.11	1.05	1.10	1.11							A / TBH OJT w/ ASD

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Course BITE

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Power Reference								Mod Percentage			Difference in Depth Mod			Remarks
		CSB/VSWR				SBO/VSWR				CSB percent			CSB			
		Commanded Power (W)	Power Reference Measurement	Displayed Power (W)	Displayed VSWR	Commanded Power (%)	Power Reference Measurement	Displayed Power (mW)	Displayed VSWR	Ext Test Equipment (% SDM)	BITE SDM (Tx % SDM)	Mod % Error (Ext-BITE % SDM)	Ext Test Equip. (DDM)	Modulation Equality (Tx DDM)	DDM Error (Ext-Bite DDM)	
Nominal		15.0	343	15.0	2.00	25.8	158	50	2.00	40.0	40.0	0.0	.001/150	.001/150	0.000	
Minimum				14.7	1.80			49	1.80			-1.5			-0.002	
Maximum				15.3	2.20			51	2.20			1.5			0.002	
08/26/2019 07:28	ME	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Post Ref F/C
07/23/2020 08:37	CJG	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre F/C
09/18/2020 05:33	ME	15.0	344	15.0	2.02	25.8	158	50	2.01	39.9	40.1	-0.2	.001/150	.001/150	0.000	A, Adjusted BITE Powers to Ref, see Line Entry for as found values.
06/17/2021 04:19	ME	15.0	343	15.0	2.00	25.8	158	50	1.98	39.9	40.0	-0.1	.001/150	.001/150	0.000	A - Adjusted BITE Powers to ref, see line entry for as found
01/19/2022 07:07	AA	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flight
05/27/2022 03:00	JDM	15.0	343	15.0	2.01	25.8	158	50	1.99	40.6	40.0	0.6	.001/150	.001/150	0.000	A, OJT
06/16/2023 13:02	CAP	15.0	343	15.0	2.00	25.8	158	50	1.99	39.9	40.0	0.1	.001/150	.001/150	0.000	A, OJT
08/24/2023 04:43	ASD	15.0	0.343 V	15.0		25.8	0.158 V	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flights
09/09/2023 04:30	CJG	15.0	0.343 V	15.0		25.8	0.158 V	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flight Check PMs
09/22/2023 03:33	CJG	15.0	0.343 V	15.0		25.8	0.158 V	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flight Check PMs
09/30/2023 02:07	CAP	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre FI
10/18/2023 03:04	SCW	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre-Flight
11/03/2023 02:58	CAP	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre-Flight
08/04/2024 08:25	CAP	15.0	343	15.0	2.01	25.8	158	50	2.00	40.0	40.0	0.0	.001/150	.001/150	0.000	A
09/24/2024 06:10	TBH	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	A / TBH OJT w/ ASD

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Clearance BITE

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Power Reference								Mod Percentage			Difference in Depth Mod			Remarks
		CSB/VSWR				SBO/VSWR				CSB Percent			CSB			
		Commanded Power (W)	Power Reference Measurement	Displayed Power (W)	Displayed VSWR	Commanded Power (%)	Power Reference Measurement	Displayed Power (mW)	Displayed VSWR	Ext Test Equipment (% SDM)	BITE SDM (Tx % SDM)	Mod % Error (Ext-BITE SDM)	Ext Test Equip (DDM)	Modulation Equality (Tx DDM)	DDM Error (Ext-BITE DDM)	
	Nominal	7.5	374	7.5	2.00	42.5	180	70	2.00	40.0	40.0	0.0	.004/150	.004/150	0.000	
	Minimum			7.4	1.80			69	1.80			-1.5			-0.002	
	Maximum			7.6	2.20			71	2.20			1.5			0.002	
08/26/2019 05:57	ME	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Post Ref F/C
07/23/2020 08:38	CJG	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre F//C
09/18/2020 05:33	ME	7.5	374	7.5	2.03	42.5	180	70	2.02	39.8	40.0	-0.2	.004/150	.004/150	0.000	A, Adjusted BITE Powers to Ref, see Line Entry for as found values.
06/17/2021 04:28	ME	7.5	374	7.5	2.00	42.5	180	70	2.01	39.8	40.0	-0.2	.004/150	.004/150	0.000	A - Adjusted BITE Powers to ref, see line entry for as found
01/19/2022 07:06	AA	7.5	374			42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flight
05/27/2022 03:04	JDM	7.5	373	7.5	2.02	42.5	180	70	2.03	40.3	40.0	0.3	.004/150	.004/150	0.000	A, OJT
06/16/2023 13:02	CAP	7.5	374	7.5	2.01	42.5	180	70	2.00	39.8	40.0	0.2	.004/150	.004/150	0.000	A, OJT
08/24/2023 04:43	ASD	7.5	0.374 V	7.5		42.5	0.180 V	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flights
09/09/2023 04:32	CJG	7.5	0.374 V	7.5		42.5	0.180 V	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flight Check PMs
09/22/2023 03:32	CJG	7.5	0.374 V	7.5		42.5	0.180 V	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flight Check PMs
09/30/2023 02:09	CAP	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre FI
10/18/2023 03:05	SCW	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre-Flight
11/03/2023 03:20	CAP	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre-Flight
08/04/2024 08:26	CAP	7.5	374	7.5	2.01	42.5	180	70	2.01	40.0	40.0	0.0	.004/150	.004/150	0.000	A
09/24/2024 06:11	TBH	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	A / TBH OJT w/ ASD

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Course/Clearance BITE

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Frequency Separation			Remarks
		Freq Separation (External Test Equip)	Freq Separation (BITE)	Freq Separation Error (Ext Minus BITE Hz)	
	Nominal	8000	8000	0	
	Minimum			-50	
	Maximum			50	
09/18/2020 06:01	ME	7997	8000	-3	A
06/17/2021 06:03	ME	8000	8000	0	A
05/27/2022 03:49	JDM	8000	8000	0	A, OJT
06/16/2023 13:24	CAP	8000	8000	0	A, OJT
09/24/2024 06:37	TBH	8000	8000	0	A / TBH OJT w/ ASD

Print Date and Time 10/11/2024 14:53:52		Workbook Status: Active	
TPR Workbook SAJ/LOC ~ SYSTEM ~ TPR DATA			
Description	Location	Serial Number	Template Notes
	CHICAGO		6750.49 Para 5-172 for ground check point requirements. Centerlines, edge of course and low clearance point. POC AJW-143 NAVAIDS, 405-954-3644 Changed power, monitor, and BITE references to have nominal values Dual Power and Digital Voltmeter readings are acceptable. Auto-reset in 3-21a(3) has been withdrawn in chg 1 - PT

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Normal Radiated (Course)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Course											Remarks	
		Carrier Power (W)	Carrier Power Volt Reference	Sideband Power (mW)	Sideband Power Volt Reference	Modulation Equality (DDM/Hz) (Balance)	Modulation SDM (%)	Ident Modulation (%)	Monitor		CSB/ISBO Phasing Far Field (DDM/Hz)	CSB/ISBO Phasing Inline (DDM/Hz)		
									Course Monitor (DDM/Hz)	Width Monitor (DDM) 150 Hz				
		Nominal	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.158	.005/150		.013/150
		Minimum	13.5		45		.001/90	38.0	6.0		.102/90	.010/150		
		Maximum	16.5		55		.003/150	42.0	10.0			.133/150	.015/150	
08/26/2019 05:48	ME	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.158	.005/150	.013/150	Post Ref F/C	
09/10/2019 08:46	ME	15.0	342	50	157	.001/150	40.1	8.0	.001/150	.156			M	
10/14/2019 10:27	ME	15.0	342	50	158	.001/150	40.1	7.9	.001/150	.156			M	
10/15/2019 08:13	ME	15.0	343	51	158	.001/150	40.1	8.0	.001/150	.156			Q	
11/08/2019 05:08	ME	15.0	343	50	158	.002/150	39.9	7.9	.001/150	.156			M	
12/10/2019 04:48	ME	15.0	342	50	158	.001/150	40.1	7.9	.001/150	.156			M	
01/07/2020 10:09	ME	15.0	342	50	158	.001/150	40.0	8.0	.001/150	.156			Q	
01/12/2020 04:30	ME	15.0	343	50	158	.001/150	40.1	8.0	.001/150	.156			M	
02/13/2020 10:31	RIR	15.0		50		.001/150	40.1	8.0	.001/150	.156			M	
03/06/2020 04:59	ME	15.0	343	50	159	.001/150	40.1	7.9	.001/150	.156		.013/150	SA	
03/08/2020 04:42	ME	15.0	343	50	159	.001/150	39.6	8.0	.001/150	.156			M	
05/03/2020 05:26	GWS	15.0	342	50	158	.001/150	40.1	7.9	.001/150	.157			As left; power restoration check	
06/09/2020 09:55	ME	15.0	346	50	158	.001/150	40.1	7.9	.002/150	.156			M	
07/10/2020 06:28	ME	15.1	341	50	158	.001/150	40.1	7.9	.002/150	.156			M, Q	
07/23/2020 07:55	CJG	15.1	341	50	158	.001/150	40.1	7.9	.002/150	.156			Pre Flights, As Found	
07/23/2020 08:22	CJG	15.0	343									.013/150	As adjusted; Pre Flights,. As found for phasing @ .013/150.	
08/17/2020 03:16	ME	15.0	342	50	159	.001/150	40.0	7.9	.001/150	.156			M	
09/18/2020 05:30	ME	15.0	342	50	159	.001/150	40.0	7.9	.001/150	.156		.013/150	M, SA, A - As Found	
09/18/2020 07:09	ME	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			M, SA, A - As Left	
10/15/2020 09:32	ME	15.0	342	50	158	.001/150	40.0	7.9	.001/150	.156			M, Q	
11/14/2020 05:19	ME	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.155			M	
01/12/2021 05:44	ME	15.0	354	50	159	.001/150	40.0	8.0	.001/150	.156			M,Q	
02/09/2021 04:53	ME	15.0	344	49	159	.001/150	39.9	8.0	.001/150	.155			M	
03/12/2021 07:28	ME	15.0	344	50	159	.001/150	40.0	8.0	.001/150	.156		.012/150	M, SA - As Found/Left	
04/10/2021 09:34	ME	15.0	342	49	158	.001/150	40.0	8.0	.001/150	.153			M, Q	
06/07/2021 10:04	ME	14.9	341	49	158	.001/150	40.0	7.9	.001/150	.155			M	
06/17/2021 03:46	ME	14.9	342	49	157	.001/150	40.0	7.9	.001/150	.156			A- As found	
06/17/2021 07:59	ME	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			A - As Left	
07/09/2021 07:37	ME	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			M, Q	
08/09/2021 09:21	ME	15.0	342	50	158	.001/150	40.0	8.0	.001/150	.156			M	
09/08/2021 04:20	ME	15.0	342	50	158	.001/150	40.0	8.0	.001/150	.156			M	
10/11/2021 05:12	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156		.013/150	M, Q, SA	
11/13/2021 04:58	JDM	15.0	344	50	158	.001/150	40.0	7.9	.001/150	.155			M	
12/20/2021 05:00	ME	15.0	345	50	159	.001/150	40.0	8.0	.001/150	.155			M	
01/05/2022 09:31	JDM	15.0	344	50	158	.001/150	40.0	8.0	.001/150	.155			Q - as found/left	
01/07/2022 07:55	CJG	15.0	344	50	159	.001/150	40.0	7.9	.001/150	.155			M	
01/19/2022 06:57	AA	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156		.012/150	Pre Flight	
02/12/2022 06:58	GWS	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.157		.012/150	Pre Flight Inspection as required	
02/14/2022 06:31	BII	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			M	
02/21/2022 07:37	CJG	15.0	344	50	158	.002/150	40.1	7.9	.001/150	.156			As Found/As Left	
03/17/2022 10:09	ME	15.1	343	50	158	.001/150	40.1	8.0	.001/150	.156			M	
04/06/2022 08:00	ME	15.0	343	50	158	.001/150	40.1	8.0	.001/150	.156		.012/150	Q, SA	
04/19/2022 09:19	ME	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			M	
05/13/2022 08:56	ME	15.0	342	50	158	.001/150	40.1	8.0	.001/150	.155			M	
05/27/2022 02:58	JDM	15.0	343	50	158	.001/150	40.1	7.9	.001/150	.155			A, OJT	
06/16/2022 08:53	ME	15.0	343	50	158	.001/150	40.1	8.0	.001/150	.156			M	
06/18/2022 12:04	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			as found/as left (CM ID261840532)	
06/29/2022 19:15	JKW	15.0	343	50	158	.001/150	40.1	7.9	.001/150	.156			As Found	

07/06/2022 02:31	BII	15.0	343	50	158	.001/150	40.1	7.9	.001/150	.156			As left (No adjustment)
07/20/2022 05:34	BII	15.0		50		.001/150	40.1	7.9	.001/150	.157			M/Q
08/12/2022 02:05	CJG	15.0	343	50	158	.001/150	40.1	7.9	.001/150	.156			M
09/20/2022 17:17	ME	15.0	342	50	158	.001/150	40.1	7.9	.001/150	.156			M
10/09/2022 03:16	JDM	15.0	343	50	158	.001/150	40.1	8.0	.001/150	.156			M
11/10/2022 04:16	ASD	15.0	0.343 V	50	0.158 V	.001/150	40.1	7.9	.001/150	.157			M
12/01/2022 05:55	CJG	15.0	343	50	159	.001/150	40.1	7.9	.001/150	.156			M/Q
12/10/2022 09:37	JDM	15.0	343	50	159	.001/150	40.1	8.0	.001/150	.155	.011/150		SA
01/13/2023 10:58	JDM	15.0	343	50	159	.001/150	40.1	7.9	.001/150	.156			M
02/09/2023 02:46	JDM	15.0	343	50	158	.001/150	40.1	8.0	.001/150	.156			M/Q
03/10/2023 03:28	CAP	15.0	343	50	158	.001/150	40.1	8.0	.001/150	.156			M
04/12/2023 04:08	CAP	15.0	342	50	157	.001/150	40.1	8.0	.001/150	.156			M
05/13/2023 03:03	JDM	15.0	343	50	157	.001/150	40.1	7.9	.001/150	.156			M
05/19/2023 02:39	JDM	15.0	342	50	158	.001/150	40.1	7.9	.001/150	.156			SA
06/11/2023 02:47	SCW	15.0	342	50	158	.001/150	40.1	7.9	.001/150	.155			M
06/16/2023 14:26	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156	.012/150		As left, A, OJT
06/24/2023 02:23	JDM	15.0	343	50	158	.001/150	39.9	7.9	.001/150	.155			Trying to complete annual FFM time delay but GS is OTS.
07/11/2023 03:23	SCW	15.0		50		.001/150	40.1	7.9	.001/150	.157			M/TNLS
08/11/2023 02:40	SCW	15.0		50		.001/150	39.9	7.8	.001/150	.156			M/TNLS
08/24/2023 03:08	ASD	15.0	0.342 V	50	0.157 V	.001/150	40.1	8.0	.001/150	.156	.013/150		Pre Flights
08/28/2023 02:24	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.155			As found F/C
08/28/2023 05:42	JDM	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			As left. Flight check terminated due to RFI. Performed ground check to ensure readings on ground were within tolerance.
09/01/2023 14:15	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.157			M / Pre RFI troubleshoot with FC
09/09/2023 03:44	CJG	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.157	.013/150		Pre Flight Check PMs / M
09/22/2023 02:18	CJG	15.0	0.343 V	50	0.158 V	.001/150	40.0	8.0	.001/150	.157	.013/150		Pre Flight Check PMs
09/25/2023 03:52	ASD	15.0	0.343 V	50	0.158 V	.001/150	40.0	8.0	.001/150	.156			Before FC Verification
09/30/2023 02:26	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156	.013/150		Pre FI
10/01/2023 02:35	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156	.022/90	.012/150	Re-verified GC after FFP. SBO phasing moved 1.5 degrees to get edges closer to nominal.
10/04/2023 05:50	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			As left
10/17/2023 15:08	ASD	15.0	0.343 V	50	0.158 V	.001/150	40.0	8.0	.001/150	.157			Verification before RFI investigation. Adjusted powers to reference. Very minor adjustments necessary.
10/18/2023 03:44	SCW	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.157	.013/150		Pre-Flight
10/19/2023 05:22	SCW	15.0	343	50	158	.001/150	40.0	8.0	.002/150	.157	.013/150		Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 74/-2.0 degrees
10/19/2023 05:46	SCW	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156	.012/150		Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 61/2.3 degrees
11/03/2023 04:23	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156	.012/150		M/Q/SA/Pre-Flight
11/06/2023 02:39	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			As found/ As left
12/09/2023 05:15	CAP	15.0	342	50	158	.001/150	40.0	7.9	.001/150	.156			M
01/08/2024 10:19	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			M
02/09/2024 04:58	SCW	15.0		50		.001/150	40.0	8.0	.001/150	.157			M
02/21/2024 04:08	ASD	15.0	0.345 V	50	0.159 V	.001/150	40.0	8.0	.001/150	.157			Verification for Q
03/09/2024 05:23	GWS	15.0		50		.001/150	40.0	8.0	.001/150	.156			M
04/11/2024 02:47	JDM	15.0	343mV	50	158mV	.001/150	40.0	7.9	.001/150	.156			M
05/03/2024 10:21	CAP	15.0	343	50	157	.001/150	40.0	7.9	.001/150	.156			M
05/19/2024 06:58	CAP	15.0	343	50	157	.001/150	39.9	8.0	.001/150	.156			Q
06/07/2024 04:46	CAP	15.0	343	50	157	.001/150	39.9	7.9	.001/150	.156			M
06/26/2024 08:17	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156	.012/150		As found, SA
07/10/2024 09:47	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			M
08/04/2024 10:17	CAP	15.0	343	50	158	.001/150	40.0	7.9	.002/150	.156			M/Q/A
08/16/2024 05:56	CAP	15.0	343	50	158	.001/150	40.0	8.0	.001/150	.156			As left/ A
09/06/2024 09:00	CAP	15.0	343	50	158	.001/150	40.0	7.9	.001/150	.156			M
09/24/2024 03:41	TBH	15.0	343 mV	50	157 mV	.001/150	40.0	8.0	.001/150	.156			As Found TBH OJT w/ ASD
09/24/2024 07:16	TBH	15.0	343 mV	50	158	.001/150	40.0	7.9	.001/150	.156			As Left TBH OJT w/ ASD
10/04/2024 04:41	CAP	15.0		50		.001/150	40.0	7.9	.001/150	.156			M

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Normal Radiated (Clearance)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Clearance												Monitor		Remarks
		Carrier Power (W)	Carrier Power Volt Reference	Sideband Power (mW)	Sideband Power Volt Reference	Modulation Equality (DDM/Hz) (Balance)	Modulation SDM (%)	Ident Modulation (%)	Width Monitor 1 (DDM) 150 Hz	Width Monitor 2 (DDM) 150 Hz	CSB/SBO Phasing Far Field (DDM/Hz)	CSB/SBO Phasing inline (DDM/Hz)				
		Nominal	7.5	374	70	180	.004/150	40.0	8.0	.181	.227	.002/150	.075/150			
		Minimum	6.8		63		.002/150	38.0	6.0			.044/90	.027/150			
		Maximum	8.2		77		.006/150	42.0	10.0			.050/150	.120/150			
08/26/2019 05:49	ME	7.5	374	70	180	.004/150	40.0	8.0	.181	.227	.002/150	.075/150	Post Ref F/C			
09/10/2019 08:47	ME	7.5	374	70	180	.004/150	40.0	7.8	.178	.227			M			
10/14/2019 10:28	ME	7.5	374	70	182	.004/150	40.1	7.9	.177	.227			M			
10/15/2019 08:13	ME	7.5	374	70	182	.004/150	40.1	7.9	.177	.227			Q			
11/08/2019 05:09	ME	7.5	376	70	182	.004/150	40.0	7.9	.176	.226			M			
12/10/2019 04:49	ME	7.5	375	70	180	.004/150	39.9	8.0	.176	.226			M			
01/07/2020 10:10	ME	7.5	375	70	182	.004/150	40.0	8.0	.177	.227			Q			
01/12/2020 04:31	ME	7.5	376	70	182	.004/150	40.0	7.9	.176	.226			M			
02/13/2020 10:32	RIR	7.5		70		.004/150	40.0	8.0	.175	.225			M			
03/06/2020 04:59	ME	7.5	376	70	182	.004/150	40.0	7.9	.177	.229		.078/150	SA			
03/08/2020 04:42	ME	7.5	376	70	182	.004/150	40.1	7.8	.177	.230			M			
05/03/2020 05:28	GWS	7.5	373	70	181	.004/150	40.1	7.8	.178	.229			As left; power restoration check			
06/09/2020 09:56	ME	7.5	374	70	180	.004/150	40.0	7.9	.178	.228			M			
07/10/2020 06:28	ME	7.5	372	70	180	.004/150	40.0	7.9	.177	.230			M, Q			
07/23/2020 07:57	CJG	7.5	374	70	180	.004/150	40.0	7.9	.178	.228			Pre Flights, As Found			
07/23/2020 09:29	CJG											.075/150	As Found Phasing @ .075/150 Pre F/C.			
08/17/2020 03:18	ME	7.5	374	70	180	.004/150	40.0	8.0	.178	.229			M			
09/18/2020 05:31	ME	7.5	375	70	180	.004/150	40.0	7.9	.178	.227		.076/150	M, SA, A - As Found			
09/18/2020 07:09	ME	7.5	374	70	180	.004/150	40.0	7.9	.177	.227			M, SA, A - As Left			
10/15/2020 09:32	ME	7.5	373	69	180	.004/150	39.9	8.0	.178	.229			M, Q			
11/14/2020 05:19	ME	7.5	374	69	181	.004/150	39.9	7.9	.178	.228			M			
01/12/2021 05:47	ME	7.5	374	69	181	.004/150	40.0	8.0	.178	.228			M, Q			
02/09/2021 04:54	ME	7.5	375	70	181	.004/150	40.0	7.9	.177	.222			M			
03/12/2021 07:28	ME	7.5	377	70	181	.004/150	39.9	7.9	.180	.230		.076/150	M, SA - As Found/Left			
04/10/2021 09:34	ME	7.5	373	69	180	.004/150	40.0	7.9	.178	.228			M, Q			
06/07/2021 10:04	ME	7.5	370	69	179	.004/150	39.9	8.0	.180	.228			M			
06/17/2021 03:45	ME	7.5	371	69	179	.004/150	39.9	8.0	.180	.228			A - As found			
06/17/2021 08:00	ME	7.5	374	70	180	.004/150	39.9	8.0	.178	.228			A - As Left			
07/09/2021 07:37	ME	7.5	372	70	180	.004/150	40.0	8.0	.177	.226			M, Q			
08/09/2021 09:22	ME	7.5	371	70	180	.004/150	39.9	7.9	.178	.227			M			
09/08/2021 04:21	ME	7.5	371	70	179	.004/150	39.9	7.9	.179	.228			M			
10/11/2021 05:17	JDM	7.5	374	70	180	.004/150	39.9	8.0	.179	.227		.074/150	M, Q, SA			
11/13/2021 04:57	JDM	7.5	375	69	180	.004/150	39.9	7.9	.178	.228			M			
12/20/2021 05:00	ME	7.5	376	70	181	.004/150	39.9	7.9	.178	.228			M			
01/05/2022 09:32	JDM	7.5	376	70	181	.004/150	40.0	7.9	.178	.228			Q - as found/left			
01/07/2022 07:56	CJG	7.5	376	70	181	.004/150	39.9	7.9	.177	.226			M			
01/19/2022 06:58	AA	7.5	374	70	180	.004/150	39.9	7.9	.178	.227		.075/150	Pre Flight			
02/12/2022 07:14	GWS	7.5	374	70	180	.004/150	40.0	7.9	.179	.229		.077/150	Pre Flight Inspection as required			
02/14/2022 06:30	BII	7.5	374	70	180	.004/150	40.0	7.9	.178	.227			M			
02/21/2022 07:36	CJG	7.5	374	70	181	.004/150	40.0	7.9	.179	.231			As Found/As Left			
03/17/2022 10:11	ME	7.5	373	70	181	.004/150	40.0	7.9	.178	.229			M			
04/06/2022 08:01	ME	7.5	374	70	180	.004/150	40.0	8.0	.177	.229		.077/150	Q, SA			
04/19/2022 09:20	ME	7.5	373	70	181	.004/150	40.0	7.9	.178	.228			M			
05/13/2022 08:56	ME	7.5	374	70	180	.004/150	40.2	7.9	.179	.229			M			
05/27/2022 02:56	JDM	7.5	372	70	180	.004/150	40.0	7.9	.178	.229			A, OJT			
06/16/2022 08:54	ME	7.1	371	70	179	.004/150	40.0	7.9	.178	.228			M			
06/18/2022 11:59	JDM	7.5	372	69	180	.004/150	40.0	7.9	.179	.229			as found/as left (CM ID261840532)			
06/29/2022 19:15	JKW	7.5	374	70	179	.004/150	40.0	7.9	.180	.227			As Found			

07/06/2022 02:33	BII	7.5	374	70	180	.004/150	40.0	7.9	.178	.225			As Left (No Adjustment)
07/20/2022 05:34	BII	7.5		70		.004/150	40.0	7.9	.179	.227			M/Q
08/12/2022 02:04	CJG	7.5	375	70	180	.004/150	40.0	7.9	.179	.225			M
09/20/2022 17:18	ME	7.5	374	70	179	.003/150	39.9	7.9	.181	.228			M
10/09/2022 03:16	JDM	7.5	374	70	180	.004/150	40.1	8.0	.178	.226			M
11/10/2022 04:16	ASD	7.5	0.374 V	70	0.180 V	.004/150	40.0	7.9	.179	.228			M
12/01/2022 05:56	CJG	7.5	375	70	181	.004/150	40.0	8.0	.178	.226			M/Q
12/10/2022 09:37	JDM	7.5	375	70	180	.004/150	40.0	8.0	.178	.228		.076/150	SA
01/13/2023 10:57	JDM	7.5	375	70	181	.004/150	40.0	7.9	.178	.227			M
02/09/2023 02:45	JDM	7.5	375	70	181	.004/150	40.0	8.0	.177	.226			M/Q
03/10/2023 03:29	CAP	7.5	375	70	180	.004/150	40.0	8.0	.175	.224			M
04/12/2023 04:09	CAP	7.5	373	70	180	.004/150	40.0	7.9	.179	.229			M
05/13/2023 03:03	JDM	7.5	373	70	180	.004/150	40.0	7.9	.178	.227			M
05/19/2023 02:40	JDM	7.5	373	70	180	.003/150	40.0	7.9	.179	.228			SA
06/11/2023 02:47	SCW	7.5	372	70	179	.004/150	40.0	7.8	.180	.228			M
06/16/2023 14:31	CAP	7.5	374	71	180	.004/150	40.0	8.0	.178	.226		.077/150	As left, A, OJT
06/24/2023 02:23	JDM	7.5	373	70	180	.004/150	40.1	8.0	.181	.227			Trying to complete annual FFM time delay but GS is OTS.
07/11/2023 03:24	SCW	7.5		69	180	.003/150	40.0	7.9	.180	.228			M/TNLS
08/11/2023 02:41	SCW	7.5		70		.004/150	40.0	7.8	.179	.227			M/TNLS
08/24/2023 03:08	ASD	7.5	0.371 V	70	0.179 V	.004/150	40.0	7.9	.181	.228		.075/150	Pre Flights
08/28/2023 02:21	JDM	7.5	374	70	180	.004/150	40.0	7.9	.179	.225			As found F/C
08/28/2023 05:47	JDM	7.5	374	70	180	.004/150	40.1	8.0	.179	.225			As left. Flight check terminated due to RFI. Performed ground check to ensure readings on ground were within tolerance.
09/01/2023 14:16	CAP	7.5	373	70	180	.004/150	40.0	8.0	.181	.227			M / Pre RFI troubleshoot with FC
09/09/2023 03:50	CJG	7.5	374	70	180	.004/150	40.0	8.0	.178	.225		.075/150	Pre Flight Check PMs / M
09/22/2023 02:21	CJG	7.5	0.374 V	70	0.180 V	.004/150	40.0	8.0	.179	.225		.074/150	Pre Flight Check PMs
09/25/2023 03:53	ASD	7.5	0.374 V	70	0.180 V	.004/150	40.0	8.0	.179	.226			Before FC Verification
09/30/2023 02:32	CAP	7.5	374	70	180	.004/150	40.0	8.0	.178	.226		.074/150	Pre FI
10/01/2023 02:35	CAP	7.5	374	70	180	.004/150	40.0	8.0	.179	.226	.002/150	.075/150	Re-verified GC after FFP
10/04/2023 05:50	CAP	7.5	374	70	180	.004/150	40.0	8.0	.181	.227			As left
10/17/2023 15:09	ASD	7.5	0.374 V	70	0.180 V	.004/150	40.0	7.9	.181	.226			Verification before RFI investigation. Adjusted powers to reference. Very minor adjustments necessary.
10/18/2023 03:44	SCW	7.5	374	70	180	.004/150	40.0	8.0	.181	.227		.076/150	Pre-Flight
10/19/2023 05:23	SCW	7.5	374	70	180	.004/150	40.0	8.0	.178	.227			Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 74/-2.0 degrees
10/19/2023 05:47	SCW	7.5	374	70	180	.004/150	40.0	7.9	.177	.225			Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 61/2.3 degrees
11/03/2023 04:25	CAP	7.5	374	70	180	.004/150	40.0	7.9	.178	.227		.080/150	M/Q/SA/Pre-flight
11/06/2023 02:39	CAP	7.5	374	70	180	.004/150	40.0	7.9	.178	.228			As found/ As left
12/09/2023 05:16	CAP	7.5	374	69	180	.004/150	40.0	7.9	.178	.229			M
01/08/2024 10:17	CAP	7.5	375	70	180	.004/150	40.1	7.9	.178	.228			M
02/09/2024 04:57	SCW	7.5		70		.004/150	40.0	7.9	.177	.228			M
02/21/2024 04:08	ASD	7.5	0.374 V	70	0.181 V	.004/150	40.0	7.9	.179	.228			Verification for Q
03/09/2024 05:29	GWS	7.5		69		.004/150	40.0	7.9	.177	.228			M
04/11/2024 02:46	JDM	7.5	373mV	70	180mV	.004/150	40.0	7.9	.178	.228			M
05/03/2024 10:22	CAP	7.5	371	69	179	.004/150	40.0	7.9	.177	.228			M
05/19/2024 06:59	CAP	7.5	372	70	179	.004/150	40.0	7.9	.179	.229			Q
06/07/2024 04:48	CAP	7.5	372	70	179	.004/150	40.0	7.8	.180	.227			M
06/26/2024 08:17	CAP	7.5	374	70	180	.004/150	40.1	7.9	.180	.230		.075/150	As found, SA
07/10/2024 09:48	CAP	7.5	373	70	180	.004/150	40.0	7.9	.177	.226			M
08/04/2024 10:18	CAP	7.5	374	70	180	.004/150	40.0	7.9	.178	.225			M/Q/A
08/16/2024 05:57	CAP	7.5	375	70	180	.004/150	40.0	8.0	.178	.226			As left/ A
09/06/2024 09:02	CAP	7.5	373	70	180	.004/150	40.0	7.9	.179	.227			M
09/24/2024 03:42	TBH	7.5	374 mV	69	180 mV	.004/150	40.0	7.9	.178	.227			As Found TBH OJT w/ ASD
09/24/2024 07:18	TBH	7.5	374 mV	69	180 mV	.004/150	40.1	7.9	.178	.226			As Left TBH OJT w/ ASD
10/04/2024 04:42	CAP	7.5		70		.004/150	40.2	7.9	.178	.226			M

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Ground Check
Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Left Side 90 Hz (DDM)						Centerline	Right Side 150 Hz (DDM)						Remarks		
		Azimuth Low CLR Angle (deg)	Low Clearance Point	35 Deg	30 Deg	20 Deg	10 Deg		Edge - Course Width	Edge - Course Width	10 Deg	20 Deg	30 Deg	35 Deg		Low Clearance Point	Azimuth Low CLR Angle (deg)
	Nominal	13	0.213					0.154	.001/150	0.159					0.256	13	
	Minimum	10	0.192					0.144	.003/90	0.149					0.231	10	
	Maximum	35						0.164	.005/150	0.169						35	
08/26/2019 05:39	ME	13	0.231					0.154	.001/150	0.159					0.256	13	Post Ref F/C
10/15/2019 08:37	ME	13	0.234					0.156	.001/150	0.160					0.257	13	Q
01/07/2020 10:35	ME	13	0.233					0.157	.000	0.164					0.256	13	Q
07/10/2020 06:53	ME	13	0.233					0.155	.001/150	0.162					0.254	13	Q
07/23/2020 10:08	CJG	13	0.234					0.154	.001/150	0.160					0.256	13	Pre FC
10/15/2020 09:34	ME	13	0.233					0.157	.000	0.164					0.259	13	Q
01/12/2021 06:02	ME	13	0.232					0.157	.000	0.162					0.258	13	Q
04/10/2021 10:04	ME	13	0.234					0.158	.000	0.164					0.257	13	Q
07/09/2021 07:47	ME	13	0.235					0.154	.001/150	0.159					0.259	13	Q
10/11/2021 07:08	JDM	13	0.233					0.154	.001/150	0.161					0.260	13	Q
01/05/2022 10:21	JDM	13	0.233					0.158	.001/150	0.162					0.257	13	Q
01/19/2022 07:32	AA	13	0.232					0.158	.001/150	0.163					0.258	13	Pre Flight
02/12/2022 08:31	GWS	13	0.235					0.155	.000	0.162					0.259	13	Pre Flight Inspection As required
04/06/2022 08:35	ME	13	0.234					0.157	.000	0.162					0.256	13	Q
07/20/2022 07:04	BII	13	0.236					0.158	.001/150	0.161					0.262	13	Q
12/01/2022 05:30	CJG	13	0.236					0.161	.000	0.164					0.258	13	Q
02/09/2023 03:25	JDM	13	0.235					0.162	.000	0.160					0.252	13	Q
05/19/2023 02:42	JDM	13	0.232					0.159	.000	0.160					0.254	13	SA
06/16/2023 14:56	CAP	13	0.233					0.159	.000	0.161					0.260	13	A, OJT
08/24/2023 04:45	ASD	13	0.232					0.158	.001/150	0.160					0.252	13	Q, Pre flights
08/28/2023 05:43	JDM	13	0.235					0.155	.001/150	0.158					0.254	13	As left. Flight check terminated due to RFI. Performed ground check to ensure readings on ground were within tolerance.
09/09/2023 04:57	CJG	13	0.233					0.158	.001/150	0.160					0.254	13	Pre-Flight
09/22/2023 03:25	CJG	13	0.234					0.150	.002/150	0.155					0.248	13	Pre Flight Check PMs
09/25/2023 03:52	ASD	13	0.224					0.149	.001/150	0.152					0.250	13	Verification during FC
09/30/2023 03:19	CAP	13	0.234					0.146	.001/150	0.150					0.255	13	Pre FI
10/01/2023 05:17	CAP	13	0.234					0.155	.001/150	0.158					0.255	13	Re-verified GC after FFP. SBO phasing moved 1.5 degrees to get edges closer to nominal.
10/18/2023 04:25	SCW	13	0.230					0.158	.001/150	0.161					0.254	13	Pre-Flight
10/19/2023 04:59	SCW	13	0.232					0.141	.001/150	0.148					0.250	13	Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 74/-2.0 degrees
10/19/2023 05:45	SCW	13	0.233					0.155	.000	0.159					0.250	13	Post FC after failing equality for transmitter 1/2. Transmitter 2 control phaser set to 61/2.3 degrees
11/03/2023 04:38	CAP	13	0.233					0.158	.001/150	0.159					0.255	13	Pre-Flight, Q
11/06/2023 03:17	CAP	13	0.232					0.157	.001/150	0.160					0.256	13	As found before FC/ As left
02/21/2024 04:13	ASD	13	0.229					0.158	.000	0.159					0.257	13	Q
05/19/2024 08:10	CAP	13	0.231					0.157	.001/150	0.157					0.257	13	Q
08/04/2024 09:50	CAP	13	0.231					0.156	.001/150	0.157					0.255	13	Q

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Monitor Alarms (Course)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Course														Remarks
		Wide			Narrow			CW Shift - 150 Hz		CCW Shift - 90 Hz		Far Field Monitor		Low RF Power (W)	Low Modulation (SDM) (%)	
		Sideband Power (mW)	Sideband Power (V)	Width Monitor (DDM) 150 Hz	Sideband Power (mW)	Sideband Power (V)	Width Monitor (DDM) 150 Hz	Modulation Equality (DDM)	Course Monitor (DDM) 150 Hz	Modulation Equality (DDM)	Course Monitor (DDM) 90 Hz	CW Mod Equality (DDM) 150 Hz	CCW Mod Equality (DDM) 90 Hz			
Nominal		38	137	.138	61	174	.171	0.008	0.008	0.006	0.006	0.010	0.008	7.5	37.0	
Minimum		38												7.5	36.0	
Maximum					61			0.008		0.006		0.010	0.008			
08/26/2019 07:46	ME	38	137	.138	61	174	.171									Post Ref F/C
10/15/2019 08:15	ME	38	137	.139	61	175	.171	0.008	0.008	0.006	0.005	0.010	0.008	7.6	36.8	Q
01/07/2020 10:12	ME	38	137	.138	61	175	.171	0.008	0.008	0.006	0.005	0.010	0.008	7.6	37.0	Q
07/10/2020 07:27	ME	38	136	.139	61	173	.170	0.008	0.009	0.006	0.005	0.010	0.008	7.6	37.0	Q
10/15/2020 10:22	ME	38	138	.140	60	174	.171	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.7	Q
01/12/2021 06:32	ME	38	139	.169	60	175	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.7	Q
04/10/2021 10:16	ME	38	137	.158	59	173	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.7	Q
07/09/2021 08:25	ME	38	138	.139	61	174	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.6	36.7	Q
10/11/2021 06:10	JDM	38	138	.139	60	174	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.6	36.8	Q
01/05/2022 09:40	JDM	38	138	.139	61	174	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.6	36.7	Q
04/06/2022 08:14	ME	38	138	.139	61	173	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.5	Q
07/20/2022 05:42	BII	39		.139	60		.168	0.007	.008	0.006	.005	0.010	0.008	7.6	36.7	Q
12/01/2022 05:59	CJG	39	139	.142	60	174	.167	0.008	0.008	0.006	0.005	0.010	0.008	7.6	36.9	Q
02/09/2023 03:45	JDM	38	138	.139	61	173	.170	0.008	0.008	0.006	0.005	0.009	0.008	7.5	36.5	Q
05/19/2023 03:43	JDM	38	136	.138	61	174	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.3	SA
06/16/2023 14:10	CAP	38	139	.140	61	174	.171	0.008	0.008	0.006	0.006	0.009	0.007	7.5	36.4	A, QJT
08/24/2023 03:54	ASD	38	0.136 V	.138	61	0.173 V	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.2	Q
08/24/2023 04:12	ASD	38	0.138 V	.140	61	0.174 V	.170	0.008	0.008	0.006	0.005	0.010	0.008	7.5	36.2	Q
11/03/2023 05:14	CAP	38	139	.140	61	174	.171	0.008	0.008	0.006	0.005	0.010	0.007	7.5	36.2	Q
02/21/2024 04:35	ASD	38	0.139 V	.140	61	0.175 V	.170	0.008	0.008	0.006	0.006	0.010	0.007	7.5	36.5	Q
05/19/2024 07:02	CAP	38	138	.142	58	169	.165	0.008	0.008	0.006	0.005	0.009	0.008	8.0	36.4	Q
08/04/2024 10:08	CAP	40	141	.144	59	173	.167	0.008	0.008	0.006	0.006	0.008	0.007	8.0	36.4	Q

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Monitor Alarms (Clearance)

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Clearance										Remarks
		Wide				Narrow				Low RF Power (W)	Low Modulation SDM (%)	
		Sideband Power (mW)	Sideband Power Volt Reference	CLR Monitor 1 (DDM) 150 Hz	CLR Monitor 2 (DDM) 150 Hz	Sideband Power (mW)	Sideband Power Volt Reference	CLR Monitor 1 (DDM) 150 Hz	CLR Monitor 2 (DDM) 150 Hz			
Nominal		54	158	.157	.203	104	221	.209	.271	4.0	37.0	
Minimum		54								4.0	36.0	
Maximum						104						
08/26/2019 07:48	ME	54	158	.157	.203	104	221	.209	.271			Post Ref F/C
10/15/2019 08:16	ME	54	160	.158	.204	104	223	.210	.272	4.0	36.9	Q
01/07/2020 10:13	ME	54	160	.157	.204	104	222	.209	.271	4.0	37.0	Q
07/10/2020 07:28	ME	54	158	.158	.205	104	220	.209	.273	4.0	37.0	Q
10/15/2020 10:22	ME	54	158	.159	.204	103	220	.211	.272	4.0	36.8	Q
01/12/2021 06:32	ME	54	159	.159	.204	104	221	.210	.272	4.0	36.4	Q
04/10/2021 10:34	ME	54	158	.159	.204	103	220	.210	.272	4.0	36.8	Q
07/09/2021 08:25	ME	54	158	.159	.204	104	220	.210	.270	4.0	36.7	Q
10/11/2021 06:11	JDM	54	158	.160	.204	103	220	.212	.271	4.0	36.7	Q
01/05/2022 09:41	JDM	54	158	.159	.204	103	221	.209	.272	4.0	36.7	Q
04/06/2022 08:15	ME	54	158	.157	.205	104	221	.208	.272	4.0	36.4	Q
07/20/2022 05:52	Bill	54		.162	.202	103		.210	.269	4.2	36.1	Q
12/01/2022 06:09	CJG	56	162	.163	.206	104	.222	.210	.271	4.2	36.3	Q
02/09/2023 03:44	JDM	54	158	.158	.204	104	.221	.209	.270	4.0	36.5	Q
05/19/2023 03:42	JDM	54	158	.160	.204	104	222	.213	.275	4.0	36.5	SA
06/16/2023 14:11	CAP	54	158	.160	.204	104	221	.211	.270	4.0	36.5	A, OJT
08/24/2023 03:54	ASD	54	0.158 V	.162	.204	104	0.223 V	.215	.272	4.0	36.3	Q
08/24/2023 04:13	ASD	54	0.158 V	.161	.202	104	0.220 V	.212	.269	4.0	36.5	Q
11/03/2023 05:15	CAP	54	158	.159	.204	103	220	.211	.271	4.0	36.4	Q
02/21/2024 04:35	ASD	54	0.159 V	.160	.204	103	0.221 V	.211	.271	4.0	36.5	Q
05/19/2024 07:09	CAP	55	159	.163	.206	100	216	.208	.269	4.3	36.2	Q
08/04/2024 10:14	CAP	57	163	.165	.207	100	219	.210	.268	4.4	36.1	Q

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet LOC Delays, VSWR, Sideband Null, Freq

Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Delays (secs)				VSWR				Record Distance for LOC Composite: LOC Composite SBO Null (inches)	Frequencies (MHz)			Battery Location Test	Remarks
		Shutdown	Restoration	FFM CAT III to CAT II	FFM CAT II to CAT I	CSE CSB	CSE SBO	CLR CSB	CLR SBO		Course Ref	Frequency Separation (K-Hz)	Clearance xF		
Nominal		2.0	20	15	90	1.00	1.00	1.00	1.00	1000	0	111.754000	8.0	111.746000	
Minimum			20	10	75						20L	111.752000	7.0	111.744000	
Maximum		2.0	20	105	1.40	1.40	1.40	1.40		20R	111.756000	9.0	111.748000		
09/18/2020 06:00	ME	1.6	21	14	98	1.15	1.05	1.08	1.11	1000	3L	111.753068	8.0	111.745070	Pass A
06/17/2021 06:07	ME	1.4	21	18	88	1.15	1.05	1.08	1.11	1250	10R	111.753040	8.0	111.745043	Pass A
05/27/2022 03:39	JDM	1.4	21	18	93	1.05	1.05	1.14	1.08	1250	13R	111.753025	8.0	111.745025	Pass A, OJT
06/16/2023 13:25	CAP	1.5	21			1.05	1.05	1.14	1.08		8R	111.753031	8.0	111.745031	A, OJT
08/24/2023 04:21	ASD									1000	0				A, FFM couldnt be completed due to GS being OTS
09/02/2023 04:04	SCW			19	94										A
08/16/2024 03:50	CAP	1.3	21	18	95	1.05	1.05	1.14	1.08	1000	13R	111.752981	8.0	111.744981	Pass A
09/24/2024 04:14	TBH			12	90										A TBH OJT w/ ASD

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Course BITE
Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Power Reference								Mod Percentage			Difference in Depth Mod			Remarks
		CSB/VSWR				SBO/VSWR				CSB percent			CSB			
		Commanded Power (W)	Power Reference Measurement:	Displayed Power (W)	Displayed VSWR	Commanded Power (%)	Power Reference Measurement:	Displayed Power (mW)	Displayed VSWR	Ext Test Equipment (% SDM)	BITE SDM (Tx % SDM)	Mod % Error (Ex-BITE % SDM)	Ext Test Equip (DDM)	Modulation Equality (Tx DDM)	DDM Error (Ex-Bite DDM)	
Nominal		15.0	343	15.0	2.00	25.8	158	50	2.00	40.0	40.0	0.0	.001/150	.001/150	0.000	
Minimum				14.7	1.80			49	1.80			-1.5			-0.002	
Maximum				15.3	2.20			51	2.20			1.5			0.002	
08/26/2019 07:28	ME	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Post Ref F/C
07/23/2020 08:32	CJG	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre F?C
09/18/2020 05:32	ME	15.0	343	15.0	1.98	25.8	158	50	1.99	39.8	39.9	-0.1	.001/150	.001/150	0.000	A, Adjusted BITE Powers to Ref, see Line Entry for as found values.
06/17/2021 04:15	ME	15.0	343	15.0	1.99	25.8	158	50	2.03	39.8	40.0	-0.2	.001/150	.001/150	0.000	A - Adjusted BITE Powers to ref, see line entry for as found
01/19/2022 06:59	AA	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flight
05/27/2022 02:59	JDM	15.0	343	15.0	1.99	25.8	158	50	2.02	40.6	40.1	0.5	.001/150	.001/150	0.000	A, OJT
06/16/2023 13:14	CAP	15.0	343	15.0	1.99	25.8	158	50	2.01	39.8	40.1	0.3	.001/150	.001/150	0.000	A, OJT
08/24/2023 04:42	ASD	15.0	0.343 V	15.0		25.8	0.158 V	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flights
09/09/2023 05:58	CJG	15.0	0.343 V	15.0		25.8	0.158 V	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flight Check PMs
09/22/2023 03:30	CJG	15.0	0.343 V	15.0		25.8	0.158 V	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre Flight Check PMs
09/30/2023 02:12	CAP	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre FI
10/18/2023 03:14	SCW	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre-Flight
11/03/2023 03:24	CAP	15.0	343	15.0		25.8	158	50		40.0	40.0	0.0	.001/150	.001/150	0.000	Pre-Flight
08/04/2024 08:39	CAP	15.0	343	15.0	2.00	25.8	158	50	1.99	40.0	40.0	0.0	.001/150	.001/150	0.000	A

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Clearance BITE
Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Power Reference								Mod Percentage		Difference in Depth Mod			Remarks	
		CSB/VSWR				SBO/VSWR				CSB Percent		CSB				
		Commanded Power (W)	Power Reference Measurement	Displayed Power (W)	Displayed VSWR	Commanded Power (%)	Power Reference Measurement	Displayed Power (mW)	Displayed VSWR	Ext Test Equipment (% SDM)	BITE SDM (Tx % SDM)	Mod % Error (Ext-BITE SDM)	Ext Test Equipment (IDM)	Modulation Equality (Tx DDM)		DDM Error (Ext-BITE DDM)
Nominal	7.5	374	7.5	2.00	42.5	180	70	2.00	40.0	40.0	0.0	.004/150	.004/150	0.000		
Minimum			7.4	1.80			69	1.80			-1.5			-0.002		
Maximum			7.6	2.20			71	2.20			1.5			0.002		
08/26/2019 07:16	ME	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Post Ref F/C
07/23/2020 08:36	CJG	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre F/C
09/18/2020 05:33	ME	7.5	374	7.5	1.97	42.5	180	70	2.00	39.8	39.9	-0.1	.004/150	.004/150	0.000	A, Adjusted BITE Powers to Ref, see Line Entry for as found values.
06/17/2021 04:30	ME	7.5	374	7.5	2.00	42.5	180	70	1.99	39.8	40.0	-0.2	.004/150	.004/150	0.000	A - Adjusted BITE Powers to ref, see line entryfor as found
01/19/2022 07:00	AA	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flight
05/27/2022 03:09	JDM	7.5	372	7.5	2.02	42.5	180	70	2.01	40.4	40.0	0.4	.004/150	.004/150	0.000	A, OJT
06/16/2023 13:15	CAP	7.5	374	7.5	2.00	42.5	180	70	2.00	39.8	40.0	0.2	.004/150	.004/150	0.000	A, OJT
08/24/2023 04:42	ASD	7.5	0.374	7.5		42.5	0.180 v	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flights
09/09/2023 05:59	CJG	7.5	0.374 V	7.5		42.5	0.180 V	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flight Check PMs
09/22/2023 03:31	CJG	7.5	0.374 V	7.5		42.5	0.180 V	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre Flight Check PMs
09/30/2023 02:13	CAP	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre FI
10/18/2023 03:13	SCW	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre-FL
11/03/2023 03:23	CAP	7.5	374	7.5		42.5	180	70		40.0	40.0	0.0	.004/150	.004/150	0.000	Pre-Flight
08/04/2024 08:41	CAP	7.5	374	7.5	2.01	42.5	180	70	1.99	40.0	40.0	0.0	.004/150	.004/150	0.000	A

Template LOC 314ND H "Localizer CAT III, Mark 20A Log Periodic" Sheet Course/Clearance BITE
Facility Type LOC Location Ident SAJ Code 314ND Class H Location CHICAGO

Date	Signed By	Frequency Separation			Remarks
		Freq Separation (External Test Equip)	Freq Separation (BITE)	Freq Separation Error (Ext Minus BITE Hz)	
Nominal		8000	8000	0	
Minimum				-50	
Maximum				50	
09/18/2020 06:05	ME	7998	8000	-2	A
06/17/2021 06:04	ME	7997	8000	-3	A
05/27/2022 03:48	JDM	8000	8000	0	A, OJT
06/16/2023 13:24	CAP	8000	8000	0	A, OJT

FY-24 SXH (10C) ILS Reliability

Performance Analysis Column Report for Date Range = 10/01/2023 - 9/30/2024

col1	col2	col3	col4	Reliab	Total_Uns_Outs
ALS				100	0
DME				100	0
GS				100	0
IM				100	0
LOC				99.726	1
PAPI				100	0
SX				100	0
TNLS				99.726	1