Ancillary Activity G&G Information and LoA Application Template

Contact Person:	
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Title:	Project Delivery Manager
Telephone Number:	(337) 268-3246

A. Type of Survey

Please indicate which type of survey will be conducted during the planned activity

_ __ Deep Penetration Seismic (greater than 1,500 in^3 total airgun array volume)

- 2D Seismic-towed Streamer
- 2D Seismic-Seafloor Cable or Nodes
- 3D Seismic-towed Streamer
- 3D Seismic-Seafloor Cable or Nodes
- NAZ
- WAZ
- 4D (Time Lapse)
- Vertical Cable
- Borehole Seismic (VSP)

_ __ Shallow Penetration Seismic (less than 1,500 in^3 total airgun array volume)

- Surface Vessel
- Surface Vessel and AUV/ROV
- Borehole Seismic (VSP)

__ HRG Surveys (no airguns used)

- Surface vessel
- AUV/ROV
- Both

_X__ Other

Describe (if Other):

- 3D Seismic Seafloor Cable or Nodes (Less than 1,000 in^3)

B. Date, Location, and Operations Information:

Question:	Response:
Purpose of the Activity:	The objective of the survey is to test the operational parameters of the dual source configuration firing at an interval of 12.5m in a flip flow configuration. Additionally, 14 OBN will be deployed to identify the optimal gain settings while testing farthest offset.
Proposed Start Date:	July 30th, 2025
Proposed End Date:	August 3rd, 2025
Overall Duration of the Activity (days)**:**	4 days
Lease Number(s):	G27958 (EXPIR) per BOEM
OCS Area(s):	West Delta Area
OCS Lease Block(s):	1
Range of water depths (ft or m):	-60 to -90 meters
Average water depth (ft or m):	-75 meters
Areal extent of the survey area: (in OCS lease blocks or km^2) (Attach GIS file(s) of survey lines and/or survey area perimeter)	Block 124 West Delta Area, Gulf of Mexico Survey Area = ~2.8 Km^2 See Section H Items A & B and attached zip file with shape files
G&G ITR/PEIS Modeling Zone(s) in which the activity will occur (1-7):	Zone 2
Number of days during the overall activity period on which the sound source(s) listed in Section C will operate: (If the activity will occur in more than one Modeling Zone, provide the number of operating days within each modeling zone.)	4 days

C. Sound Sources:

- List all survey-related instruments that emit acoustic energy into the water column, including but not limited to airgun or airgun arrays, sub-bottom profilers, bubble pulsers, sparkers, side scan sonars, multi-beam sonars, single-beam echosounders, ultra-short baseline (USBL) position systems, pressure inverted echosounder (PIES), etc.
- For airgun arrays, please attach a diagram showing the layout (geometry) of the array and list of airgun sizes.

Energy Source	**Manu-facturer**	**Model**	**Total Array Volume & Number of Elements** (cubic inches or Liters.)	**Source Level (SL) in dB re 1µPa@1m in water** (RMS)	**Source Level (SL) in dB re 1µPa@1m in water** (Peak to Peak)	**Operating Frequency** (Hz, kHz, range)	**Pulse Duration** (seconds, milli-seconds)	**Pulse Rate (or Cycle)** (Pulses per second or minute)	**Towing Depth of the Source** (ft or m)	**Towing Depth of the Receiver(s)** (ft or m)	**Duration of Use** (Number of Days or Percent of Active Sound Source Days)
Air Gun Array	Sercel	Mini G-Source	2 Arrays @ 160cu in. each	200 -205 dB@1 µPa@1m	210 -215	20 - 300	1 – 2 seconds	1 – 3 seconds	1.5 – 3meters	Receiver is OBN on seabed	4 days

D. Vessel Information:

Vessel Type	**Vessel Name**	**Registration Number**	**Registered Owner**	**Typical survey speed** (knots)	**Highest Travelling Speed** (knots)	**Home Port**
AHV	Holiday Chouest	IMO#9423176	Edison Chouest Offshore	2 to 4 knots	10 knots	Port Fourchon, LA
Vessel/Activity Support Base:		Port Fourchon, Louisiana				
Transit Route: (Describe clearly or attach a map)		Port Fourchon to WD 124 via the most direct route.				

E. Take Estimate:

Following is Gulf of Mexico Seismic Survey Exposure Calculator for Zone 2:

Gulf of Mexico Seismic Survey Exposure Calculator

Compute estimated marine animal exposures based on user-defined seasonal schedule, survey configuration, and location.

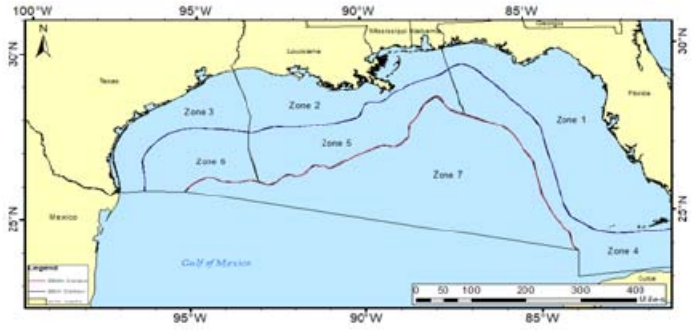
Instructions:

- Select the survey type and zone number (2-7, operations in Zone 1 are not covered by the incidental take regulations) from the drop down lists (click in the cell to see the dropdown arrow)

- Type in the number of days of acquisition per season in the "Schedule" section (Winter: December - March, Summer: April - November)

Report tables are automatically updated based on user selections.

Zone Map:



Parameters	
Survey Type	*3D WAZ*
Zone Number	*2*

Schedule	
Season	# days
Summer	3
Winter	0

Exposures by Metric	Summer	Winter	Total
Level A			
Low-Frequency Hearing Group			
Bryde's whale	< 0.01	< 0.01	< 0.01
High-Frequency Hearing Group			
Kogia (dwarf, pygmy sperm whale)	< 0.01	< 0.01	< 0.01
Level B			
Low-Frequency Hearing Group			
Bryde's whale	< 0.01	< 0.01	< 0.01
Mid-Frequency Functional Hearing Group			
Beaked whales (Cuvier/Blainville/Gervais)	< 0.01	< 0.01	< 0.01
Bottlenose dolphin	5,408.88	< 0.01	5,408.88
Short-finned pilot whale	< 0.01	< 0.01	< 0.01
Sperm whale	< 0.01	< 0.01	< 0.01
Atlantic spotted dolphin	827.14	< 0.01	827.14
Clymene dolphin	< 0.01	< 0.01	< 0.01
False killer whale	3.16	< 0.01	3.16
Fraser's dolphin	1.38	< 0.01	1.38
Killer whale	0.02	< 0.01	0.02
Melon-headed whale	0.02	< 0.01	0.02
Pantropical spotted dolphin	0.24	< 0.01	0.24
Pygmy killer whale	< 0.01	< 0.01	< 0.01
Risso's dolphin	0.11	< 0.01	0.11
Rough-toothed dolphin	43.38	< 0.01	43.38
Spinner dolphin	< 0.01	< 0.01	< 0.01
Striped dolphin	< 0.01	< 0.01	< 0.01
High-Frequency Hearing Group			
Kogia (dwarf, pygmy sperm whale)	< 0.01	< 0.01	< 0.01

Level A Color Legend:	
	Level A SEL
	Level A Peak

*If no color highlight, both level A peak and SEL are <0.01

Total take, including Level B Scaling (where appropriate)			
	Summer	Winter	Total
Low-Frequency Hearing Group			
Bryde's whale	< 0.01	< 0.01	< 0.01
Mid-Frequency Functional Hearing Group			
Beaked whales (Cuvier/Blainville/Gervais)	< 0.01	< 0.01	< 0.01
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High-Frequency Hearing Group			
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F. Monitoring and Mitigation Plans:

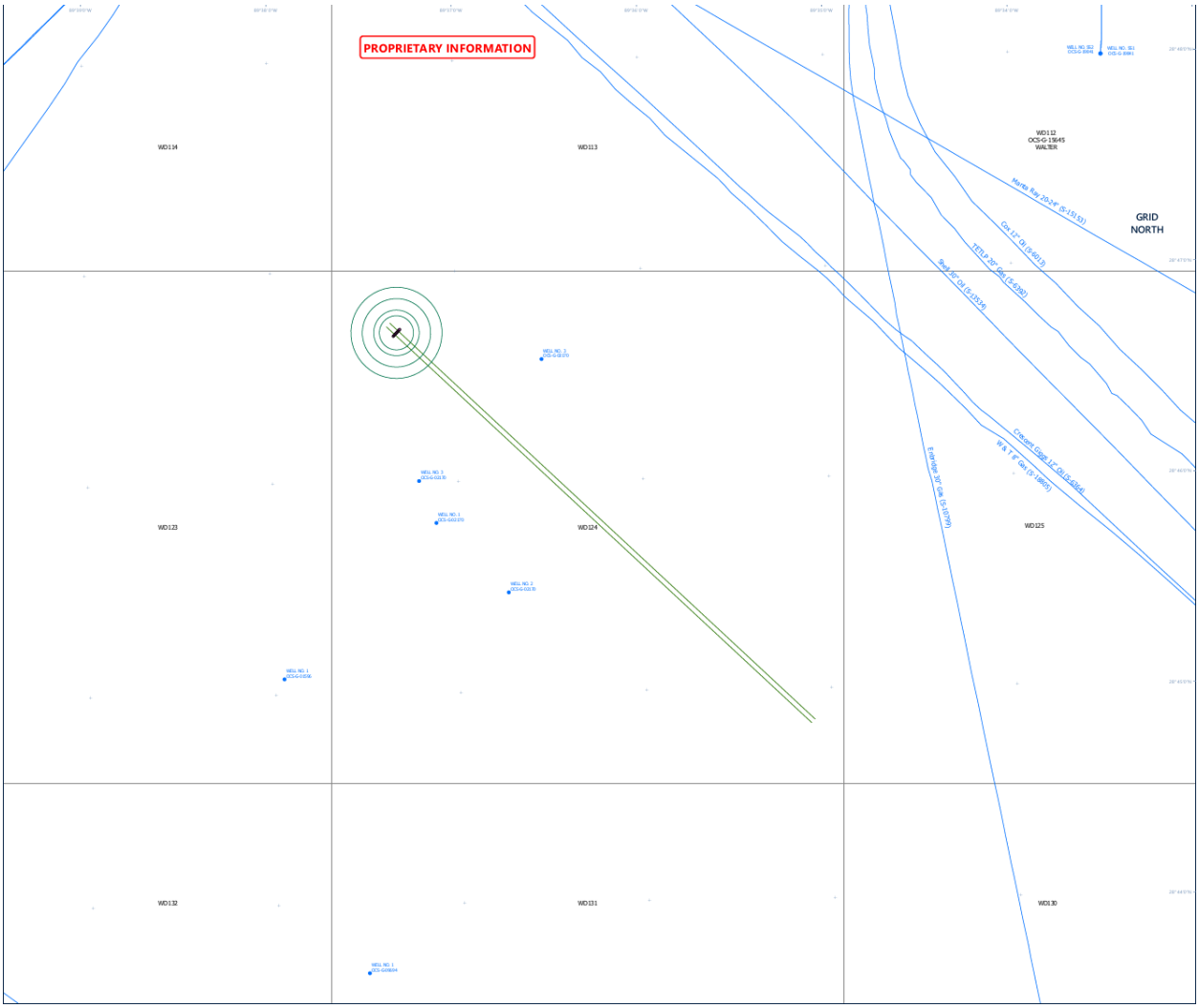
Question:	Response:
Please indicate which set of monitoring and mitigation measures from the ITR apply to the planned activity:	**C.5 Mitigation Measures** **1. Soft Start (Ramp-Up) Procedures** To minimize acoustic impacts on marine life, the acoustic source will be activated using a soft start (ramp-up) protocol: • The source output will be gradually increased over a minimum of **20 minutes**. • If the break is **less than 30 minutes**, ramp-up may resume without a new clearance period, provided continuous monitoring was maintained. **2. Protected Species Observer (PSO) Protocols** Qualified PSOs will be onboard to conduct marine mammal and sea turtle monitoring: • **Visual monitoring** will be conducted during daylight hours. • Minimum of **two PSO's** will be on visual watch during operations. • **Maximum watch** will not exceed **two hours** without a **one hour break**. • PSOs will not exceed **12 hours of watch per 24-hour period** and will not be assigned other duties during monitoring. • Clearance searches will be conducted prior to ramp-up: o **30 minutes** for water depths <200 meters • Ramp-up will be delayed if protected species are observed within the exclusion zone until: o The animal has not been sighted for **20 minutes**, and o The full clearance period has been completed. **3. Marine Mammal Exclusion Zones (EZs) and Buffer Zones (BZs)** • A 1**00-meter exclusion zone** will be established around the acoustic source. For baleen whales, sperm whales, beaked whales and *Kogia sp.* the exclusion zone would be 500m • An extended **100–200-meter buffer zone** will be established round the acoustic source during pre-watch clearance, except for the above listed species whose pre clearance zone would remain at 500m.
Confirm that you will apply this set of monitoring and mitigation measures during the activity:	Confirmed

G. Attach Certification

Attach a certification signed by an authorized company official attesting that you will conduct your ancillary activity in accordance with the performance standards in 30 CFR 550.202(a), (b), (d), and (e) and any applicable protection measures listed in Appendix F of BOEM NTL No. 2009-G34 Reissued: June 19, 2020.

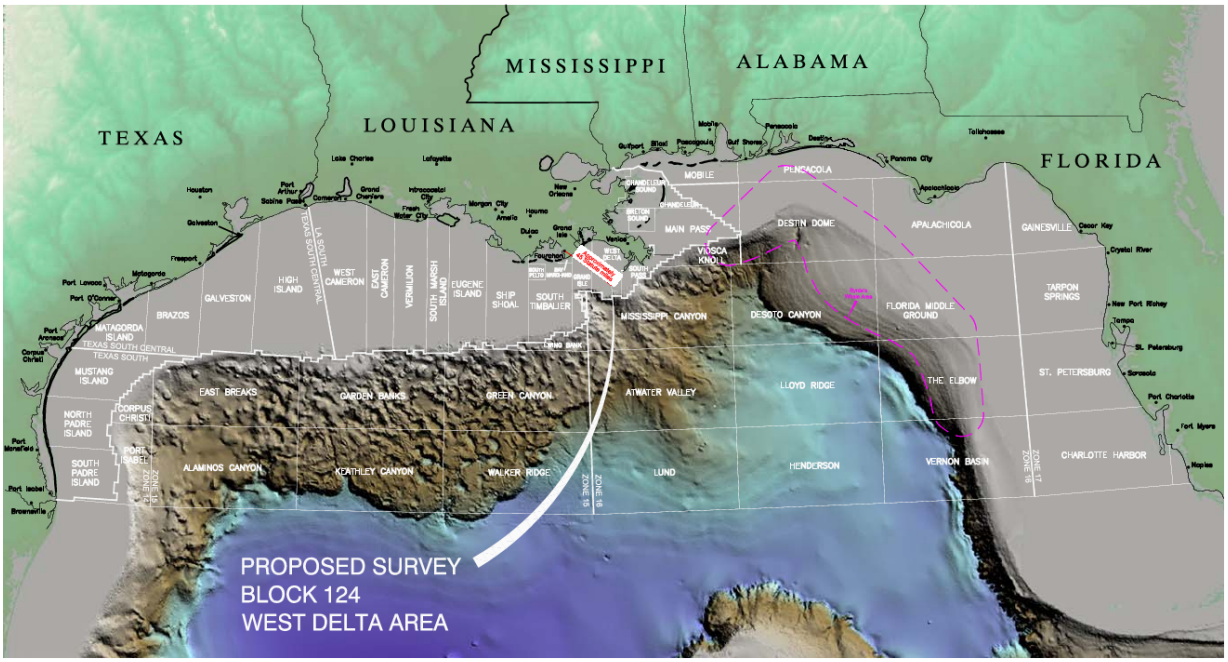
H. Map of Survey Area and Transit Route

a. PROPRIETARY Chart – WD 124 HRG OBN Test.



b. Transit Routes

REGIONAL MAP



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