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Our Ref: JHD/NM

Attendees of June 15 Industry Meeting  
c/o Department of the Interior  
1849 C Street, N.W.  
Washington, DC 20240

Dear Attendees,

Thank you for your participation at the June 15<sup>th</sup> meeting at the Department of the Interior, hosted by Secretaries Salazar and Chu.

BP's primary action from the meeting was to generate a 'wish-list' of resources that would either improve the current containment schedule, increase the containment capacity, or provide additional redundancy above the current planned redundancy level. That list is attached.

The items included on the list consist of either complete systems or individual components. We recognize that not all systems and components will be in your inventory, but we appreciate your efforts to provide BP access to the list of items that you do have available.

Please send your response to this request to Richard Lynch at the address above, and electronically to [Richard.Lynch@bp.com](mailto:Richard.Lynch@bp.com); and please copy Secretaries Salazar and Chu in your correspondence. BP will contact you directly for any items needed. Your assistance is greatly appreciated.

Yours sincerely,

**cc:**  
Secretary Ken Salazar  
Department of the Interior  
1849 C Street, N.W.  
Washington, DC 20240

**cc:**  
Secretary Steven Chu  
Department of Energy  
1000 Independence Ave., SW  
Washington, DC 20585

Containment Projects Equipment Wishlist

Date: 6/16/2010

#	Description	Specification / Details	Quantity	Comment
1	6" flexible pipe (eg Colfexip)	- Collapse rated / resistant - 7000+ psi rated - Equipped with end fittings	1200 feet (+/-) for CDP 2000 feet (+/-) for NTC	6" preferred. Currently available 1000' of 3" flexible could potentially collapse and significantly restricts potential flow rate / throughput to CDP1 containment system. 6" would become CDP1 cross-over flexible from Kill Shot Manifold to CDP1 manifold. <u>Would include any available auxiliary kit (lifting / installation aids, vertebrae, etc.).</u>
2	4" flexible pipe (eg Colfexip)	- Collapse rated / resistant - 7000+ psi rated - <u>Equipped with end fittings</u>	1200 feet (+/-)	4" would suffice. See comment on item #1. Further note, would serve as additional spare or alternate should BOP 'enhanced cap' provide direct flow path to CDP1 manifold.
3	Cameron Mini Connectors	- 3" or 4" - 10+ ksi rated	8+ for CDP 10+ for NTC	Standard connector being used by CDP for subsea connections with flexible pipe. Also offers spare connector options for manifold kit / hubs. Typically used / found on BOP choke and kill equipment. Drilling contractors and BOP supply.
4	Cameron Mini Connectors	- 3 1/16" - 10+ ksi rated	2	For latching cap valve manifold assembly, allowing multiple connection points; have 2 in stock, need 2 more
5	7000+ umbilical, termination and powered reel	- 10ksi rated - Capable of delivering 8gpm methanol - Capable of supplying electrical and hydraulic functionality to BOP pod - Associated flying leads from termination to BOP pod - Reel system for deployment and recovery	7000'+	Direct replacement for Q4000 command of Horizon BOP pod and / or CDP chemical injection system. Contingency / spare for Q4000 swap - assume control of choke / kill lines.
6	4 to 6 slot subsea manifold	- 4" pipe - 10+ ksi rated - Valved - ROV operable / manual valves - Vertically oriented hubs	1 for CDP 3 for NTC	<u>Would include matching connector equipment for vertical hubs.</u> Potential direct replacement for CDP1 manifold or additional functionality for CDP2 or like containment system.
7	Spare 4" flexible	400' from CDP (previous BOP to CDP manifold line) with end fittings	400'	Fully tested, equipped for installation, end fittings. No longer required for CDP project with manifold move to SW. Goosenecks and buoyancy taken for CDP x-over line.

8	6" End Fittings	Spares	x4	2 end fittings for 6" spare
9	Lifting collars / yokes	For 6" spare	x2	For 6" spare
10	Lifting collars / yokes	For 4" CDP BOP to manifold flexible	x2	
11	Lifting collars / yokes	For 3" CDP x-over	x2	For 3" CDP x-over
12	Vertebrae	For 6" spare	x2	
13	Vertebrae adapters	For 6" spare	x2	
14	Vertebrae	For 4" CDP BOP to manifold flexible	x2	
15	Vertebrae adapters	For 4" CDP BOP to manifold flexible	x2	
16	Vertebrae	For 3" CDP x-over	x2	
17	Vertebrae adapters	For 3" CDP x-over	x2	
18	Buoyancy for goosenecks	For 3" x-over flexible jumper	x2	These were sourced from the 4" CDP flexible, no longer required
19	Buoyancy for goosenecks	For CDP BOP to manifold jumper (future)	x2	Need 5300# buoyancy x2 for each 135 deg gooseneck
20	Buoyancy for 6"	To take weight of 6" hanging off BOP. These will be DBMs.	x4	x7 spare available
21	Goosenecks	180 deg w/ chemical injection panel, hot stab, adapter to 4", incl. razorback	x1	Need to scavenge ROV chem inj panel, hot stab, razorback for CDP new 135 deg x-over gooseneck assembly
22	Connectors	4" Cameron mini connector	x2	Made up to 4" goosenecks (135 deg and 180 deg). Need to allocate to CDP 3" cross-over flexible and 135 deg goosenecks
23	Connectors	135 deg w/ hot stab, adapter to 4", incl. razorback	x1	To be allocated to CDP x-over 3" flexible
24	Connectors	180 deg out of plane (CDP spare), w/ 15k flanges but no ROV panels	x1	CDP spare
25	Connectors	180 deg in plane (CDP spare), w/ 15k flanges but no ROV panels	x1	CDP spare
26	Connectors	135 deg in plane (CDP spare), w/ 15k flanges but no ROV panels	x1	To be allocated to CDP x-over 3" flexible. Need to rob chemical injection kit and ROV panels from CDP 180 deg gooseneck assembly in Fourchon. Then backfill with order
27	Connectors	Razorback, Cameron hydr tubing and ROV panel, 15k flanges	x1 set	To outfit spare 135 degree gooseneck
28	Goosenecks	135 deg gooseneck, with Cameron hydr ROV panel and no chem inj (dumb)	x1 assembly	Belongs to IMT Clearleader team. Clear preference from John Boyle not to utilize unless schedule critical to deliver CDP 3" x-over

29	Connectors	Cameron 3" mini connector assembly	x1	Needed by IMT Clearleader team
30	Misc / Installation Aids			will need lifting collar to assist with installation of the flexible, rigging for goosneck - everything we need to install 1000' flexible is out on the Boa
31	Connectors	Cameron 3" mini connector assembly	x2	Trond, Norway connectors. Need to backfill x2 CDP connectors utilized for 3" cross-over. These will become connectors for CDP BOP capping stack to manifold flexible.
32	Connectors	Cameron 3" mini connector assembly - w/ ROV panel, currently be used for CDP manifold pressure cap		If required, can be recovered for use on CDP2 flexible assembly (BOP capping stack connection)
33	Connectors	Cameron 3" mini connector assembly - Dubai Source	x2	About to clear Saudi customs, need to to expedite to Cameron Berwick. TBD status / refurb requirement.
34	Connectors	7.5ksi from Donn Topper	TBD	7.5ksi Cameron mini connectors - Donn Topper advised some may be available on 6/15
35	Gooseneck	180 deg in plane (CDP spare), w/ 15k flanges but no ROV panels		Tom Mataway - Stan Bond containment team spare. Cameron advised of existence.
36	Gooseneck	135 deg in plane (CDP spare), w/ 15k flanges but no ROV panels		Tom Mataway - Stan Bond containment team spare. Cameron advised of existence.
37	ROV panel	Cameron hydr ROV panel and tubing, dummy hot stab	TBD	Need to procure for CDP2 and backfill 4" CDP kit that was scavenged for 3" x-over
38	ROV Chem Inj Panel	Oceaneering 17D hi flow 10k ROV panel, hot stab receptacle and pressure retaining stab	TBD	Need to procure for CDP2 and backfill 4" CDP kit that was scavenged for 3" x-over
----- Systems -----				
39	Floating Production Facility (FPS, FPSO)	- 40 - 80 b/d capacity - Gas flaring capability - In hull storage capacity - DP	1	
40	Dynamically Positioned Drilling Rig	- 4800 ft depth operational capability - Crane installation capacity - DST package -	1	Capable of running the 3 Ram BOP with the Flange connection preferably with dual derricks to handle multiple contingencies. This allows the Enterprise to be used as a Containment System during the Flange installation work which will surely have issues and provide a robust overall plan. Additionally, this allows the Enterprise to start pulling their Riser off line significantly reducing the T-time for Hurricanes

41	Oil Transportation Tankers	- Over 500k barrels storage capacity -	3	
42	Multi Service ROV Vessel	Olympic Intervention IV	1	Oceanengineering managed intervention vessel w/ ROVs for field support. Quality of infield subsea operations support.
43	Free Standing Riser Assembly			
44	6" Pipe-in-Pipe Flowline	- 15 miles (insulated) - 15000 psi rated	15 miles	To potentially tie well into Pompano or Nakika
45	Subsea Degasser	- 30 to 60k b/d capacity		-
46	Clear Leader / Enterprise with DST - Redundancy or Replacement	Equivalent replacement for drillship Clear Leader / Enterprise with DST (15K to 20K bopd & 45 to 60 mmscfd) to and other Topsides equipment systems or components	1	Replacement to Clear Leader / Enterprise
47	Lazy "Y" riser system for 5000+ water depth	What is available	1	Connection to Floating Production System
48	Single Point Mooring and hose for use	What is available	1	Surface offtake point
49	Seillaen (Frontier Drilling) Technical and Operating Personnel	Technical personnel to deliver an operational ready Floating Production System	Team	

