



Designing competence,
Building results.



UAV DIVISION



The usage of Drone is being incorporated to Plimsoll's range of services knowing that this practice is sustainable for asset managers in the energy industries.

While conventional methods are still required for maintenance, preliminary inspection can be performed at lower cost, risk, and infrastructure downtime.

Plimsoll is able to perform your visual inspection and count with a team of specialized pilots and naval engineers with full experience in class society close-up inspections and shipyard repair and construction. This way we guarantee the best result for the drone inspection for our client.



Current internal tank inspection techniques require people to climb inside dangerous and potentially chemically hazardous tanks. This process is fraught with danger, time consuming and delivers low quality data sets. The Plimsoll drone based solution allows inspections to take place without personnel climbing the tank or erecting scaffolding inside the tank, significantly reducing risk to life, time for inspection and improving both the quality and repeatability of the data sets. This combination of benefits not only reduces risk and cost but, through the data analysis software, will allow clients to identify trends with identified anomalies.



Inspection procedure premises:

- 2 Men Team (Naval Engineer as Supervisor);
- Client to inform what will be checked at inspection – Any important point, pre-existing damage inspection, visual check for paint quality, general visual inspection or detailed visual inspection;
- Risk analyses and flight plan prior to first flight;
- Team will be working from inside the tank with Drone at line of sight;
 - Tank must be ventilated and gas free;
- 20 batteries → 200 minutes of flight directly if no electrical point close to inspection area;

Deliverables:

- Video file with full inspection for review any time needed;
- Report with the point of interests registered with full quality picture;
 - Corrosion areas;
 - Damaged areas;
 - Paint quality;



Benefits:

- The images generated by the UAV captured a level of detail equivalent to that of the human eye from a distance of 1.5 m
- Eliminate the risk of damaging the coat from not needing to erect scaffolding;
- Time saving – drone inspection take only few hours or a day. Compared to rope access the savings are considerable;
- Cost reduction;
- Access 100% of tank area;
- Easy to carry – 17kg transport case;



EMPRESA
CADASTRADA



CRCC



PETROBRAS

Contact us

Our team is ready for you



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