

# HMA Connect

## #9

Dear Colleagues,

Six months have passed in 2021 with new experiences and lesson learnt. We have seen record high of COVID19 cases throughout Malaysia and the pandemic has impacted our day-to-day operation and life. On this note, I would like to encourage everyone to get vaccinated to create safety at our workplace and within our communities.

This edition highlights latest events and achievements especially establishment of PETRONAS Virtual Remote Witnessing Guideline for Testing Activities to ensure continuity of Malaysia upstream operation activities. We have seen how virtual witnessing can reduce cost, whilst ensuring requirement is met.

I would like to invite all of you to welcome Shalita Aman, our new HMA Head replacing Salmizana Salim starting from 1st July 2021. She has vast experience in Malaysia oil and gas value chain. We also have Hazirah Hamdan, joining us in May 2021 as caretaker for HA Sabah region. Let's bid both a warm welcome!

Thank you.

Regards,  
*Kamarul*



Hanisah



Dzuhailah



Ir Ts Azrul



Shalita



Ili Izyan



Kamarul



Firdaus



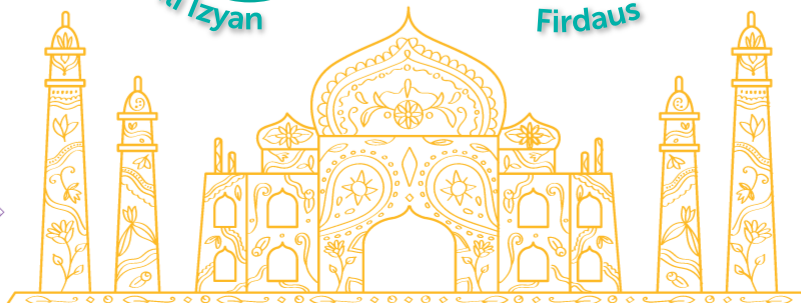
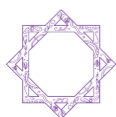
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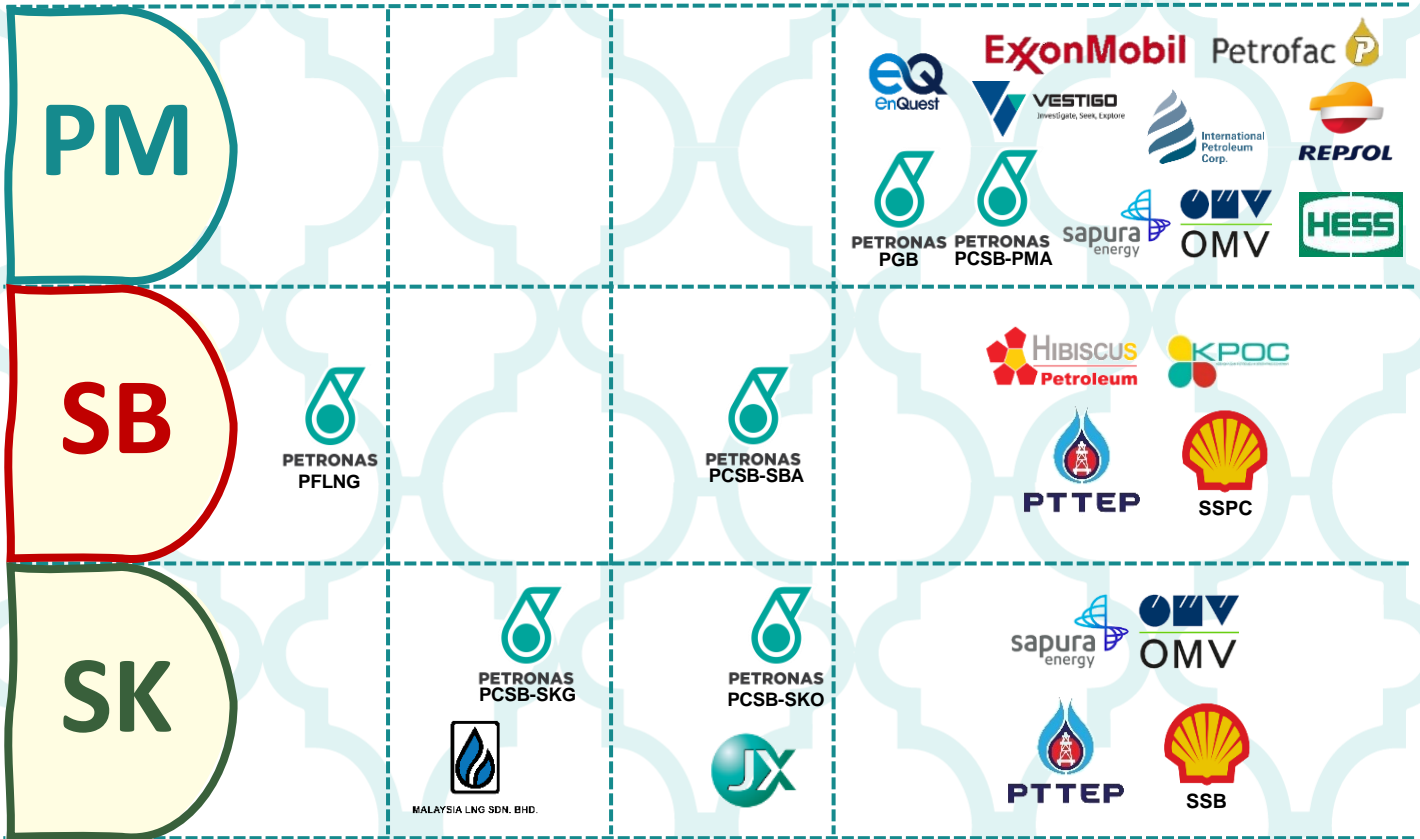
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# Q1-Q2 '21

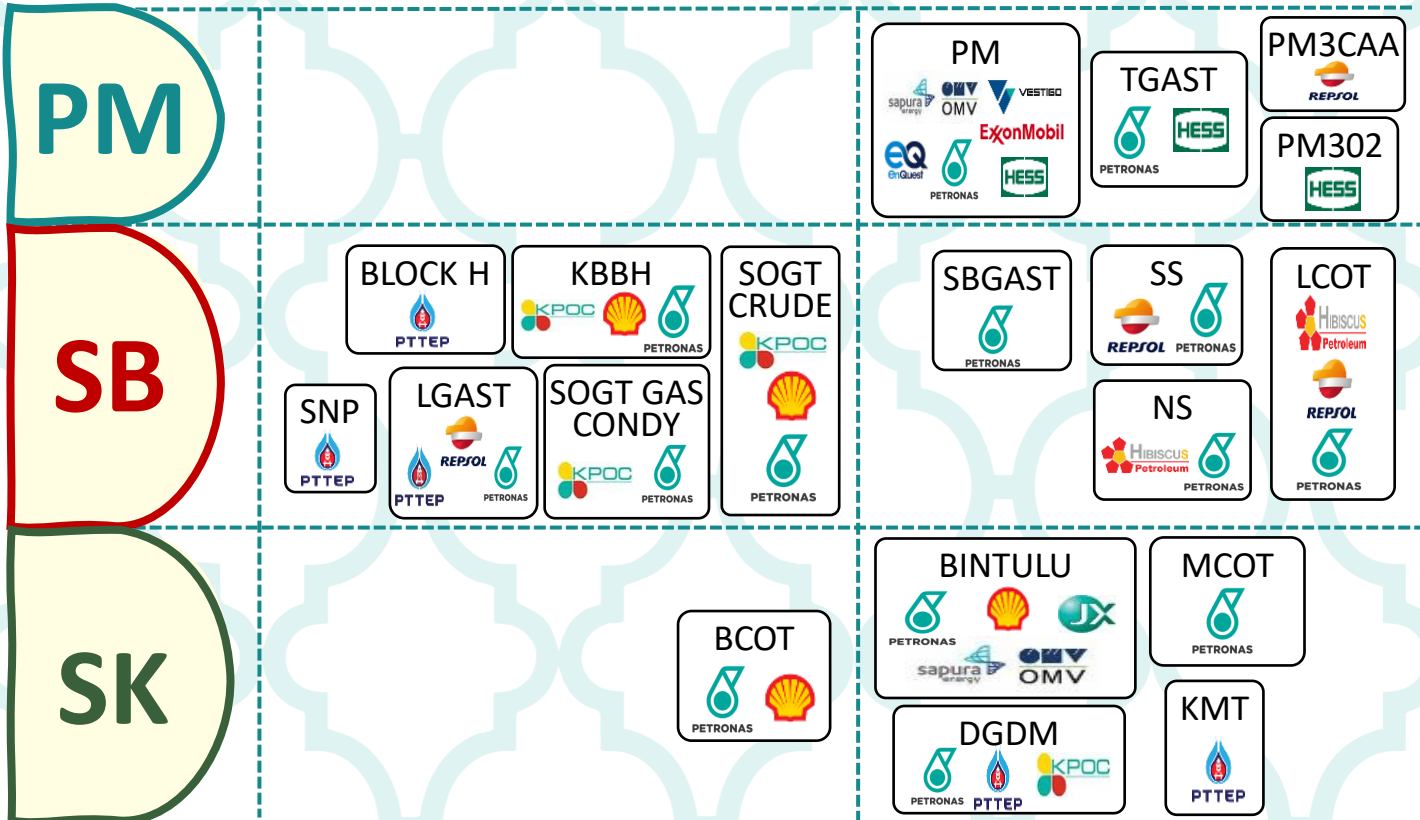
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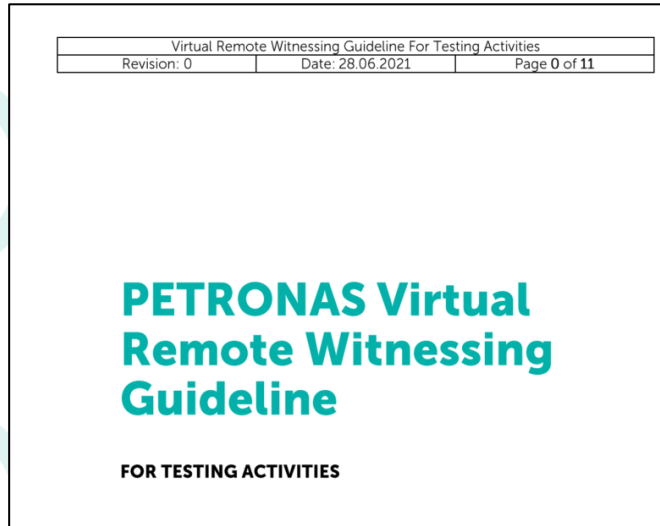


## Q1-Q2'21 Allocation Closing Compliance

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# PETRONAS VRW Guideline



PETRONAS acknowledges the challenges faced by the Petroleum Arrangement Contractors (PACs) to conduct project and operational activities (inspection, calibration, FAT, UAT and SAT) due to the pandemic situation.

The advancement in telecommunication and automation technologies makes it highly possible for these activities to be witnessed remotely while maintaining the compliance standard. This approach is a sustainable alternative that significantly optimizes activities execution, provides greater flexibility to the project and significantly reduces associated cost to all parties.

We are pleased to announce the establishment of a guideline to standardize the practice of virtual remote witnessing session. This guideline provides recommendations for the implementation covering the basic requirement and etiquette and shall be read along with respective PPGUA Volumes.

Figure 2 illustrates the typical set up for VRW consisting of equipment set up at testing facilities, capturing devices, online communication platform and internet connection. Additional equipment may be added to improve the witnessing experience. Setup shall be agreed by PETRONAS and/or all witnessing parties.

The following are the primary element of a virtual remote witnessing:

- Data:** Measured parameters and other live data shall be made available for remote viewing during the testing.
- Live feed:** Screen sharing together with single or multiple cameras may be used at the test site to allow witnesses to monitor the testing steps.
- Test record:** All relevant data shall be recorded at site, preferably by means of electronic measuring devices and presented using any data processing application.

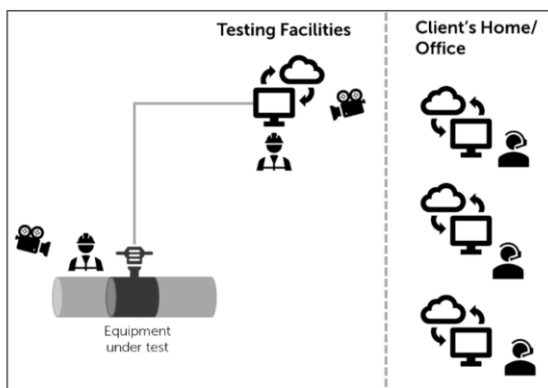


Figure 2: Typical setup for VRW

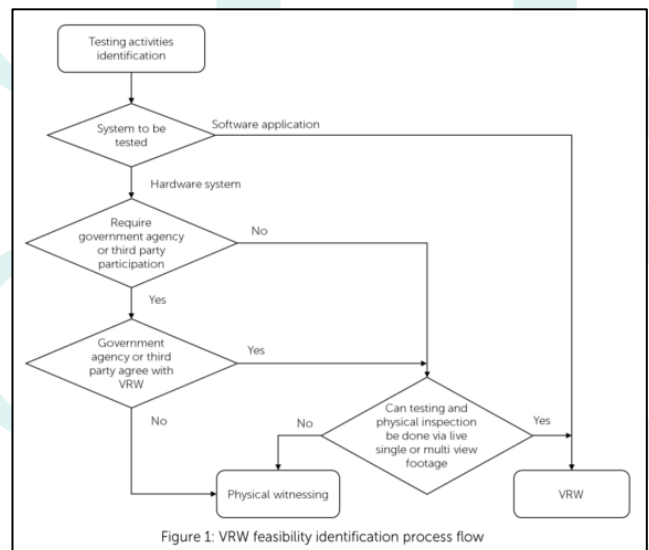


Figure 1: VRW feasibility identification process flow

# PETRONAS Measurement Forum 2021

PETRONAS Measurement Forum is an annual event focusing on measurement matters including issues, technologies, and collaborations. The participants include all PETRONAS measurement fraternity from upstream, downstream, and new energy business units. This year, the event was held virtually on 6-7 April via Microsoft Teams.

MPM HMA presented on 'Upstream Measurement System – Rediscover Experience, Revolutionize Approaches', focusing on Fit-for-Purpose (FFP) metering setup, Condition-Based Maintenance (CBM), and Virtual Remote Witnessing (VRW) for testing activities.

- FFP initiative focuses on the installation of gas & liquid hydrocarbon measurement where a minimum cost to be invested and fit for purpose equipment is required due to economical reasons. FFP guideline has been established to aid the selection of metering that comply with the intended requirements, for the design and engineering parameters, and added value on cost optimization. This guideline can be accessed in the latest PPGUA 4.1.
- CBM strategy emphasizes on improving the costly time-based maintenance, with aims to achieve self-regulated continuous performance monitoring and decision making, by embracing diagnostic technology. A few pilot locations across PCSB facilities have been identified for comprehensive CBM implementation.
- PETRONAS has established a guideline to standardize the practice of VRW sessions. This guideline provides recommendations for the implementation covering the basic requirement and etiquette. Facilities operators may utilize this guideline for measurement activities such as flow meter calibration, as well as other project and operational testing activities (FAT & SAT).

With these initiatives, facilities operators would be able to optimize and improve the operation and maintenance of the hydrocarbon measurement systems, in line with PETRONAS Moving Forward Together 50.30.0.





# ProVEN©

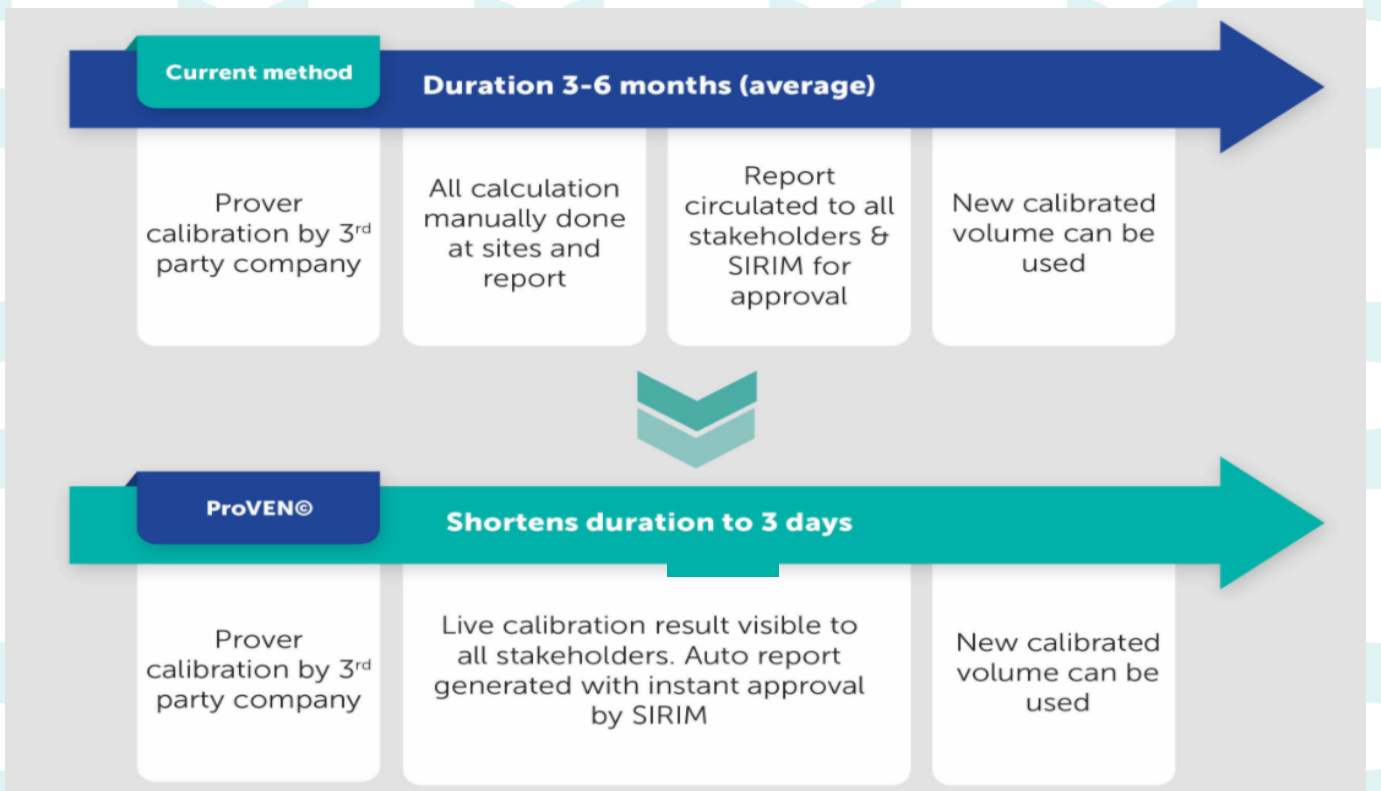


## Prover Volume Electronic Network

Prover Volume Electronic Network, or ProVEN©, is a web application which digitalises the manual process for prover recertification approval by the National Metrology Institute of Malaysia SIRIM Berhad, NMIM SIRIM. ProVEN© is a collaborative effort between PETRONAS and SIRIM to shorten the approval process of prover volume recertification.

Since its launching in March 2020, a total of 10 prover recertification has been completed using ProVEN© with the shortest duration of 7 days. In November 2020, this project received the Silver Medalist award at the International Invention, Innovation and Technology Exhibition (ITEX 2020).

For more information on ProVEN©, you may reach out to Rahimi Zaman at [rahimi\\_zaman@petronas.com](mailto:rahimi_zaman@petronas.com).



# IRIS User Training and Roll Out for PGB (PM MTAB)

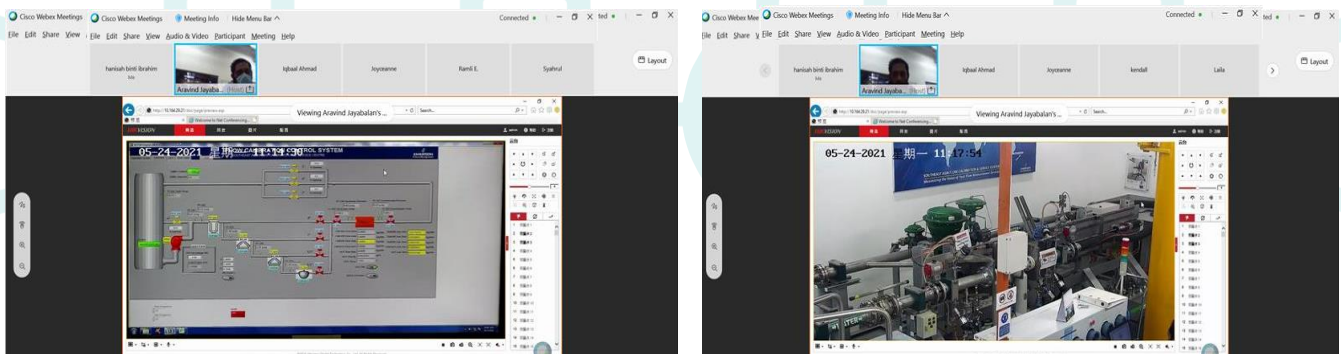


IRIS was successfully rolled out for PGB facilities (GPK and GPS) starting March 2021 closing and the user training session was conducted virtually for all user. This achievement marks the completion of IRIS implementation for PM MTAB and has significantly improved metering irregularities reporting, review and approval for PGB.

## PFLNG1 Meter Calibration

On 24<sup>th</sup> May and 6<sup>th</sup> July 2021, calibration of two units of PFLNG1 Coriolis flow meters was conducted at Singapore Flow Laboratory by Emerson and witnessed by PFLNG1, KPOC, NMIM SIRIM and PETRONAS MPM via WebEx online platform.

The calibration scope covers density and flow calibration at different flow rates. To ensure effective calibration, the calibration flow rates covered current operating flow rate and during start up mode. The results were then analysed based on API standard and PPGUA in terms of linearity and repeatability.



# PMAP Audit for TGAST MTAB Network

In ensuring reliability of measurement systems and accuracy of the allocation process for TGAST MTAB Network, MPM, PCSB PMA, and HESS have successfully conducted their first joint Production Measurement & Allocation Procedure (PMAP) Audit from 19th April to 10th May 2021.

The scope of the audit covers all measurements at TGAST, NMB, and Muda field for the period of 2019-2020. Audit findings are incorporated as part of the MPM HMA Assurance Program for TGAST MTAB.

Despite the MCO, all team members have proven strong collaboration in making sure the assessment successfully completed. Kudos to the team for all the efforts and dedication!

## PM MTAB HMA Assurance Program



Peninsular Malaysia (PM) MTAB HMA Assurance Program was kicked off on 17<sup>th</sup> June 2021 and pre-exit meeting completed on 13<sup>th</sup> July 2021. The program involves ExxonMobil, SapuraOMV, EnQuest, Vestigo Petroleum and PCSB PMA covering 23 metering systems within 7 PSCs and 3 onshore terminals. Due to the MCO, the assessment was conducted virtually.



Thank you to all auditees for your utmost commitment towards continuous improvement of upstream metering system and allocation in Malaysia!



## PETRONAS HMA COP 2021

*Stay tuned for more updates!*