

SIMULTANEOUS MPD UPGRADES ON THE SEADRILL WEST TELLUS AND WEST CARINA



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LASER SCANNING SURVEYS

Laser Scanning for 3C Metal is certainly the future of Surveys.

3C METAL ASIA

The new addition to the 3C Metal Family, the 3C Metal Asia Workshop in Johor Bahru, Malaysia, is now fully operational.

VANTAGE TUNGSTEN EXPLORER

Rig Upgrades in preparation of Operations in the TOTAL MOHO NORD Field.

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A WORD FROM THE MANAGING DIRECTOR



"It is the dedication by all those who work within 3C Metal's organization that has been a key factor in its successful performances"

Welcome to 3C Metal's latest newsletter.

Like most businesses in the Oil and Gas sector, 3C Metal is focusing on the current oil price volatility and the subsequent general market downturn.

As a company, we are focused more than ever on providing a fully integrated cost effective service, maintaining high safety standards, providing technical support and continuing to develop the skills of our team members. It is these core values that allow 3C Metal to provide a reliable high quality service at reasonable costs and all within a time frame that meets the ongoing challenges of its industry.

3C Metal recognizes the importance of its relationships with its clients and it is with generous thanks to your repeated trust that its teams this year were once again utilized on a multitude of projects.

It is the dedication by all those who work within 3C Metal's organization that has been a key factor in its successful performances and allows these projects to be executed in a safe manner.

This year 3C Metal aims to continue to provide a quality service with its Engineering, Supply, Prefabrication and Installation services provided by all of the 3C Metal entities in Dubai, South Africa, France and Malaysia – at the best possible rates/deliveries possible.

There are several successes in 2015 that are worth a brief mention in this newsletter. Namely: 3C Metal France's delivery of the TIGF IAB and NSOP Projects. 3C Metal Middle East successfully undertaking the simultaneous installation of 2 x HP/LP Piping Packages for MPD Upgrades on the Seadrill West Tellus and West Carina in transit from Las Palmas and South Korea respectively to Brazil. 3C Metal South Africa delivering 12x Pipeline End Terminations, 4x Pipeline End Manifolds and 1x Subsea Isolation Valve for the TEN Project (Subsea 7) in collaboration with Belmet Marine. 3C Belmet Services recertifying over 100 Drilling Risers since 2014. And of course the opening of 3C Metal Asia in Johor Bahru Malaysia as the latest addition to the 3C Metal Group.

Please enjoy the read and as always your feedback is highly appreciated to help continue to improve 3C Metal's services and develop long term partnerships.

Kind regards,

Philippe Boy Managing Director pboy@3cmetal.com

SEADRILL WEST TELLUS AND WEST CARINA

Simultaneous installations on two Seadrill vessels for HP and LP Piping for the Weatherfod MPD Package installation along with other Operator required upgrades.





In November 2014, Seadrill contacted 3C Metal to assist with upgrades to the West Tellus and West Carina Drill Ships for a contract with Brazilian operator Petrobras commencing in May 2015.

The major scope of work for 3C Metal on both Rigs was the permanent Weatherford MPD System installation. In Las Palmas and in Singapore, Seadrill installed large Tower Structures (the "MPD Tower") that housed all permanent MPD equipment along with the second burner boom structures to allow for 3C Metal to then push forward with the installation of the HP Piping for both the burner boom and MPD System. Choke and Kill Lines, Cement lines and the cuttings dryer were installed into position during the transit.

Several surveys were conducted on the West Carina whilst the vessel was in the SHI Shipyard in Geoje – South Korea in order to detail the scopes awarded to 3C Metal, the requirements and designs were identical on both Rigs. The project teams united their efforts on the surveys to gain efficiency and to allow transfer of information.

The largest added value for Seadrill was that 3C Metal had the ideal spread of workshops globally, which greatly assisted from a logistics and schedule perspective.

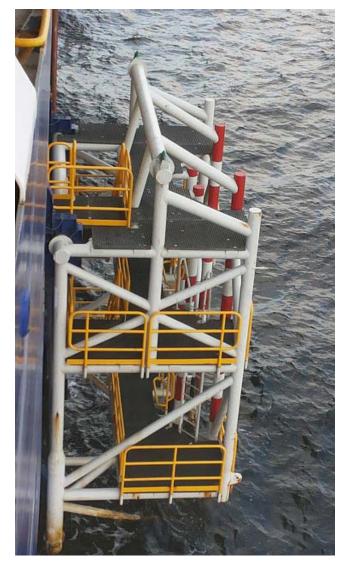
For the West Tellus, all HP and LP Piping was available in stock and was supplied by 3C Metal in France – ideally placed logistically for ferry/cargo vessel transport from close by Bilbao Port to Las Palmas daily. 3C Metal France also conducted all prefabrication of the Deluge piping, an intricate galvanized piping system. 3C Metal Middle East (3CMME) in Dubai supplied all of the critical API Monogrammed HP Fittings.

For the West Carina, 3CMME in Dubai supplied all of the API Monogrammed HP Fittings and carried out the prefabrication of the HP cement lines. 3C Metal Asia (3CMA) Johor Bahru – Malaysia – for material supply and pre-fabrication of the HP burner boom piping while the rig was docked in Singapore. Both 3CMME and 3CMA produced full documentation packages for this work that included full traceability on all material used and supplied.

For the West Tellus, the installation commenced on the 28th of December 2014 until its final day on 14th April 2015. In total 3C Metal were on-board 103 Days, 4,721 man days, coming to 47,210 Working hours on-board, with a maximum team size of 80 people.

The installation on the West Carina commenced on the 6th February 2015 until its final day on the 8th June 2015. 3C Metal mobilized a maximum of 44 pax onboard with a total of 123 Days, 4,695 man days – totally 46,950 working hours onboard.

The project was a major success for both 3C Metal and Seadrill. 3C Metal were able to provide a global service to a major Client who were then able to secure their drilling contract. There was certainly logistical and schedule challenges throughout the entire project, however with careful and thorough management, we were able to avoid downtime and finish the job that satisfied the Client's high standards.





VANTAGE TUNGSTEN EXPLORER

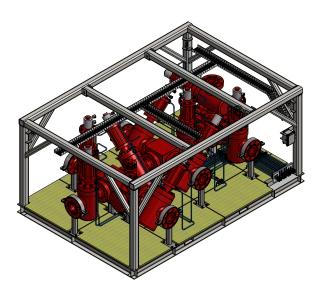
Rig upgrades in preparation of operations in the TOTAL Moho Nord Field

In March 2013 during the final stages of the rig delivery at the DSME yard in Okpo – South Korea, 3C Metal took part in a survey to assist with the preparation of the rig for its drilling contract in the TOTAL Moho Nord field in Congo. As part of this survey, 3C Metal performed 3D laser scanning to assist with accuracy of several critical scopes.

The following year, 3C Metal was awarded over 20 significant upgrades to the vessel. Most notably of these was a 24 tonne Boat Landing Structure to allow rig personnel safe access and egress to the personnel transport boats; seven spooler bridges on the Port and Starboard sides of the Riser Catwalk structure to support completions reels as well as a Mud Sieving System. In June 2014, a team which consisted of 50 people from 3C Metal including welders, fitters, scaffolders and electricians boarded the vessel to install the first of the prefabricated scopes. This was then followed by a smaller team in October 2014 to undertake the Mi-Swaco Cuttings Treatment equipment installation.

The successful completion of the first phase was relatively simple compared to the challenge that followed, which was the installation of the AKER IWOCS completions packages in the Moonpool area, where access was limited and space was at a premium. Utilizing the 3D Laser scans and excellent interaction with Vantage and TOTAL, 3C Metal was able to accurately model the installation of the equipment, which utilized the Christmas Tree Carrier and a customized rail system. Clashes were identified and accounted for in the design and installation plan. A 25 tonne two leveled platform to house the AKER LWRP and Annulus Reels was also designed to fit in Starboard Aft corner of the Moonpool, designed to be built in pieces to allow the AKER Annulus reels to be installed on the bottom level during the construction process. The plan also included the routing of the fragile IWOCS umbilical jumpers around the rig to allow the various completions packages to communicate with the IWOCS containers.

In July 2015, the pre-fabricated IWOCS structures were delivered to the rig. Approximately 20-30 qualified tradesmen were onboard the vessel for three months and the 3C Metal Project Team set about delivering this complex installation safely with a high level of quality that was acknowledged by all parties and in accordance with the original plan. It is noteworthy to mention that all major designs were reviewed and approved by the class authority without any comments.





MPD BUFFER MANIFOLDS

The Design and Manufacturing of MPD Buffer Manifolds

The Ocean Rig Corcovado and Mykonos Drillships, currently operating offshore Brazil, are being upgraded with an MPD (Managed Pressure Drilling) System as part of their future contractual obligations with Brazilian Operator Petrobras.

Ocean Rig awarded a contract to 3C Metal for the design and manufacturing of two Buffer Manifolds for their future Managed Pressure Drilling system.

The design component included taking a third parties Laser Scanned Data of the relevant area of the vessel and creating a Manifold that would fit in the confined location chosen by the Ocean Rig Operations Team.

The Manifold is fully automated and composed of nine high pressure double actuated gate valves as well as equipped electro switches to report open and close positions.

General specifications:

- 5"-1/8 x 2"-1/16
- WP 5000 PSI
- API6A
- P+U
- PSL3
- H2S Service



TIGF GAS PIPELINE INTERCONNECTION ARTHEZ DE BEARN

In mid 2014, TIGF awarded 3C Metal an EPC contract (Engineering, Procurement and Construction) for their new gas pipeline interconnection on a site near Pau in Southern France.

This challenging project included the design and construction of the complete site which is made up of pipeline interconnections supplying gas all around the South Western region of France.

It included work packages with different functions such as:

- Gas counting and analyzer
- Pressure release valves
- Safety valves
- Gas coalescing separator
- Cleaning and inspection station

3C Metal managed the interdiscipline Engineering and Construction Project including piping in compliance with French Government standards, civil works, instrumentation, electricity, automatism and communication of the site.

The site is fully commissioned and up and running.

CHEVRON CAPE TOWN TURNAROUND 2015

The 2015 Turnaround event at Chevron's Cape Town refinery was marked as a 'Mega' event - a complete shutdown of the refinery, with extensive work being carried out across all areas.

After finding several pinhole leaks in their Amine lines, Chevron undertook a study to identify the root cause of failures and subsequently the corrective actions required. The root cause was attributed to stress corrosion cracking that was accelerated due to a high concentration MEA. The remedial action was to change all Amine lines. The Carbon Steel lines requiring Post Weld Heat Treatment (PWHT) (due to lower operating temperature) and Stainless Steel 321 material (higher operating temperature).

In July 2014 3C Metal South Africa was awarded the contract for the second phase of the like-for-like replacement to the refinery Amine lines. The scope could be grouped in three phases; Preparation and Planning, Prefabrication and Installation.

As part of a shutdown at a refinery, the deadline for startup is critical, and careful planning was key to meeting the challenging installation schedule. An intensive survey was conducted to confirm spool dimensions and recreate accurate isometric drawings to minimise welding during installation.



A constructability assessment was carried out to determine best routings and to minimize any pitfalls and constructability risks

The prefabrication commenced in November 2014 for a duration of 10 weeks in the 3C Metal South Africa workshop and comprised of fitting, welding, NDT, Post Weld Heat Treatment (PWHT), pressure testing, painting and transport to site. Full traceability on all materials was maintained throughout the process and complete and detailed data packages were compiled detailing each step of the fabrication. This included over 1200 Carbon Steel Welds and 400 Stainless Steel Welds.

The installation phase kicked off in February 2015 with a duration of 12weeks and a team of 95 personnel at its peak. Destruction of old lines followed by installation of new spools, fit-up, welding, NDT and PWHT with close interaction by QC to follow every step of the installation. Before handover, all lines were pressure tested and closed up in accordance with the 3C Metal flange management system. Execution wasn't without its challenges, but with good teamwork, close cooperation and swift actions by all parties, a leak free start-up was reached on time for the Amine system.

SUBSEA STRUCTURE PIPING FABRICATION

3C Metal South Africa completes piping fabrication for the TEN project's Subsea Structures



3C Metal South Africa successfully completed the TEN project, which involved the development of an oil field in the Deep Water Tano block, offshore Ghana, West Africa.

Belmet Marine was contracted by Subsea 7 to fabricate 12 PLETs (Pipe Line End Terminations), 4 PLEMs (Pipeline End Manifolds) and a SIV (Subsea Isolation Valve) at their workshop in Bellville. Belmet Marine awarded the High Pressure piping fabrication, installation and testing scope of work to 3C Metal South Africa.

This project started in August 2014 with the project preparation and the first welding procedure qualifications started in December 2014. In total 12 project specific welding procedures were qualified and these included procedures for Carbon Steel, Inconel 625 cladded and Super Duplex materials.

Prefabrication of the pipe spools commenced at 3C Metal South Africa's carbon steel and white WS facilities in March 2015. The prefabricated sections of pipe and client equipment was then installed into the subsea structures at Belmet's fabrication facilities.

Upon completion of the welding and installation, 3C Metal South Africa performed FAT activities which included water jet flushing, gauging, valve back seal tests and hydro pressure testing of the pipework.

3C Metal South Africa's scope of work also included the installation of stainless steel hydraulic control tubing which was welded using an Autogenous GTAW process (Orbital Welding).

The project was successfully completed in August 2015 with zero lost time injuries, illustrating the capacity for Subsea piping fabrication with 3C Metal South Africa.

NEWS FROM 3C BELMET SERVICES

3C Belmet Services continues to grow

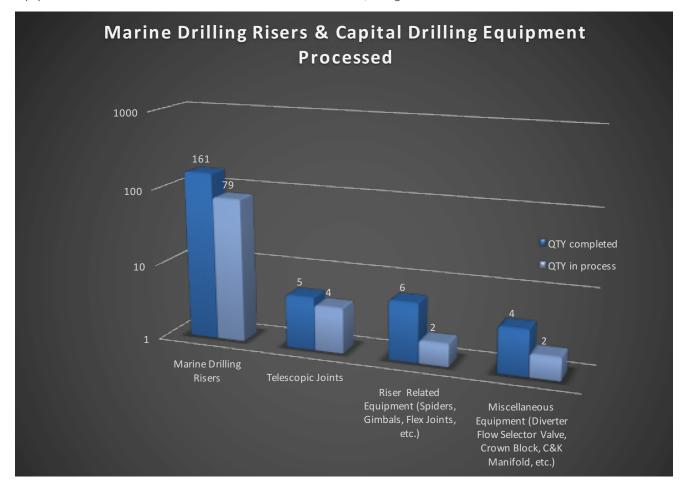
3C Belmet Services (3CBS) has maintained a level load in 2015, and is continuing to grow and add to its capabilities. The main project for 2015 involved the processing of various batches of Belford Dolphin Riser Strings (10 year OEM Recertification). The project yielded a vast amount of repair scope and offered opportunity for 3CBS to also supply and manufacture the required Riser spare parts.

The 3CBS Project Engineering team continues to strengthen, gaining experience with managing various challenging marine drilling riser and capital drilling equipment recertification and repair projects. Strong emphasis has been placed on the growth of the inspection department, multi-skilling of inspection staff and gain of individual experience on various pieces of Subsea equipment.



Major developments include the implementation of in-house NDT capabilities - the next logical step to better support the business, which allows inspectors to become experts in the field of NDT pertaining to risers and capital drilling equipment. 3CBS has also commissioned a Cladding Cell capable of cladding with Inconel 625, which will be used to clad items like Riser Auxiliary Line Box Connectors, Ring Gasket

Grooves and other seal areas found on Subsea equipment. 3CBS also continues to develop the in-house specialized coatings plant offering phosphate, various Xylan, Everslick & Molikote, all typically found on Subsea equipment and fasteners.



3C METAL ASIA

The 3C Metal Asia Workshop in Johor Bahru, Malaysia, becomes fully operational



3C Metal recognized the relevance of having a presence in Asia after considering the number of projects initiated from South Korea and Singapore over the past few years. After a few months of prospects, it was decided to open a workshop in Johor Bahru, Malaysia – a stone's throw away from Singapore.

3C Metal Asia SDN BHD opened in May 2014 and operations began in January 2015. The 800 m2 covered

workshop on a fully interlocked 7,500 m2 plot, was setup with state of the art equipment including a CNC plate cutting machine, welding sets and post weld heat treatment machines, band saw, compressor, forklift and all the necessary hand tools and portable equipment.

3C Metal Asia has already played a key role in several major projects. Approximately 150 joints or 300 meters of Medium Pressure Piping (Burner Boom lines) completed in February – March 2015 for the Seadrill West Carina. 43 Tons of Structure for the ENSCO DS-8 for various Post Delivery Scopes including Spooler Bridges Receptacles and other ABS Approved structures and piping assemblies.

Several local projects have been initiated and completed successfully, including the N2 Generator installation onboard the Maersk Venturer, as well as several surveys in the ASEAN Region on the Vantage Emerald Driller, Maersk Convincer and Noble Bully 2.

Recently, 3C Metal Asia has received stock of high pressure piping, fittings, valves and connectors and can now assist locally with HP fabrication and supply with immediate availability, a strength 3C Metal have always relied on in all entities worldwide.

3C Metal Asia is no longer just an idea, operations are in full swing and the client base is growing. 3C Metal Asia has proven to be a reliable vendor for clients in the region.

3C METAL MIDDLE EAST, TRINIDAD DRILLING BOP SKIDS

Custom designed hydraulically actuated BOP Skids manufactured in the 3C Metal Middle East Jebel Ali Free Zone facility in Dubai.

In July 2014, 3C Metal Middle East were awarded the design and fabrication project for 4ea BOP Skids for Trinidad Drilling.

The custom design was linked to the Client requiring several criteria to be met. The skids were to accommodate several sizes of BOP to allow the client the flexibility to use them across their Land Rig Fleet for different BOP Stack sizes. The main criteria however was the clearance limitations under the Drill Floor and still allow the skids to be lowered into the correct location.

A total of 2,464 Calculation Engineering and Drafting man hours were spent on defining and refining the design with several iterations to ensure the client was satisfied with the functionality.

Hydraulic design was also integral to the success of the Skids. 3C Metal worked with ATH in France to define an accurate



and foolproof system incorporating several safety and interlocking methods. ATH & Veraflex supplied the cylinders as well as the HPU's for all of the Skids from France.

Fabrication kicked off in early 2015, load testing and commissioning was witnessed by the client for each skid and the final skid was delivered in April, 2015.

LASER SCANNING SURVEYS: THE FUTURE OF SURVEY FOR 3C METAL

Laser Scanning is certainly the future of surveys for 3C Metal to ensure accuracy and efficiency of data gathering and to assist in optimizing prefabrication and installation.

Traditional survey techniques have been very useful for 3C Metal's installation activities, with a minimum of two to three team members including: Engineers, Project Supervisors and Project Engineers and Managers generally spending several days onboard a Rig to gather data for projects. They included taking physical dimensions with measuring tapes or laser measurers, hand sketches, isometric drawings, physical review of existing structural and piping drawings and lots of photographs, to be able to define work scopes and kick off the engineering process.

However, over the past 18 months 3C Metal have been utilizing Laser Scanning Technology during surveys to gather a larger array of data in a more accurate fashion and in a much shorter time frame to be capable to obtain a "like-for-like" accurate model of the surveyed area of the Rig/Vessel. This has allowed surveys to be more efficient and to ensure that designs incorporate clash checks for prefabrication and review installation requirements and challenges.

What is Laser Scanning?

Scanning uses advanced technology that allows the highprecision 3D measurement device to take hundreds of thousands of laser points and photo quality imaging of defined areas. These points are often referred to as a "cloud of points". It is then able to be loaded into proprietary and 3D CAD Software to allow drafting teams to re-create 3D Models of the areas and/or insert newly designed items and equipment for a quick and accurate visual depiction of the actual state of a Rig/Vessel.

Benefits of Laser Scanning

There are significant benefits in using Laser Scanning during surveys that are all linked to accuracy and efficiency. The physical time needed to conduct a survey and the number of people are reduced substantially, with a single engineer being able to conduct the survey. The accuracy of the laser scanner and the amount of data gathered allow



for precise data each time without the surveyor missing critical dimensions or equipment.

The major benefits for 3C Metal are that the engineering and design team are able to insert newly designed equipment, check for clashes, review installation requirements/techniques and have an accurate model of the area in case of major changes requested by the client.

Data Collection Techniques

Even though the Laser Scanning device does all of the "hard work", the technique for undertaking Laser Scanning needs to be well planned and thought about during the survey to ensure that no data is missed or omitted. If the surveyor does not think about the locations where several scans need to be taken, there is a large risk that obstacles can impact the amount of data captured.

Merging of Data

The first step after conducting the scanning is to merge all of the Cloud Points and recreate a 3D Model of the Area. This comes back to the quality of the data collection, which if done well, allows for the cloud point to easily be recreated by merging all of the scans done in a relevant area and mate up all of the points.

Post Treatment

The next step is the post treatment and use of the gathered data, and in this case there are several options. The simplest use of the data is to simply work in

the cloud point format and insert the newly designed items. This allows for the designers to take accurate dimensions, check for clashes and insert the equipment, piping, structures and check for installation and functional requirements. The Cloud Points can also be rendered into solid objects to obtain a clean and usable 3D Model in AutoCAD 3D or Inventor 3D. This process is time consuming for larger areas as each item scanned needs to be defined and rendered.

Examples by 3C Metal

3C Metal have undertaken several projects whereby Laser Scanning has played a vital role in the verification of equipment positioning and installation, assisting with structural and piping installation and reviewing installation challenges.

Please see the following video links:

- Laser Scanning Presentation: https://www.youtube.com/ watch?v=OjeNWNapiBA
- Scanning of a Compartment https://www.youtube.com/ watch?v=uQpj530LbGY

3C Metal's Capabilities and available

3C Metal currently owns and operates 3 x Laser Scanning Units that are readily available for use on projects - all strategically based at its workshops across the globe in Cape Town - South Africa, Dubai - UAE and Johor Bahru - Malaysia.

SAFETY IN SOUTH AFRICA

3C Belmet Services Yard conduct emergency response training

In keeping with the QHSE culture at 3CMSA, the team is continuously auditing and testing the systems and responses.

In early September, the team decided to test the emergency response system at the Riser repair facility - 3C Belmet Services.

The scenario as seen in the photos depicted a fire that broke out and resulted in a total facility evacuation.

The response was excellent and the whole exercise was over in minutes. The value of this exercise is huge as it tests the theoretical plan with the practical execution. It highlights any shortcomings in training and equipment.

The detail and drilling down that is done during the internal audits has a very similar effect on the systems in place at 3C Metal as it feeds back into a continuous upward spiral of improvements on the system procedures and on the floor execution of these procedural requirements.

SAFETY AWARD TO 3C METAL FRANCE IN APRIL 2015



Thierry Vauzour, General Manager of 3C Metal France, received a trophy from TIGF upon completion of a two year contract (NSOP) with no incidents or accidents.

The achievements recognized included the replacement of 908 Nozzles and 150m of 24 inch pipe changed in a gas plant unit in operation, 10,000 hours of pre-fabrication and 34,000 hours on site (sub-contractors included).

NSOP project (Normal System Operating Pressure) was an EPC contract involving detailed engineering, pipe works, civil works and electrical/instrumentation activities.

The award ceremony took place in Lussagnet, France, in April 2015. Congratulations to Thierry and the 3C Metal France Team for the outstanding achievement!



3C METAL MIDDLE EAST OHSAS 18001 CERTIFICATION

In 2014, 3C Metal Middle East Management decided to apply for OHSAS 18001 to be able to put a more structured HS&E Structure into the Dubai workshop and for offshore projects.

The 18001 Standard for Occupational Health & Safety Assessment Series comprises of a detailed policy and list of standards incorporating procedures, work instructions and required forms.

The HS&E and QA team was involved in developing the management system with the support of the 3C Metal South Africa HS&E entity which already holds the certification. The team held numerous HSE committee meetings on the implementation and realization of all clauses to ensure the relevance of the Standard to the Local, Federal and Free Zone legal obligations and requirements as well as the stringent Offshore requirements in the Oil and Gas industry.

Once completed, awareness training programs were planned and conducted for the entire team as well as in-house training.

The audit process started with a Gap Analysis by Bureau Veritas on the 19th of February 2015. The final audit was held on the 17th August 2015 with the confirmation that 3CMME are fully compliant and BV will be recommended for certification.

3C Metal Middle East received the OHSAS 18001:2007 certificate on the 9th of September 2015 - congratulations team!

DUBAI INTER FREE ZONE GAMES



3C Metal Middle East team 3C Dreamers win silver medal in football during Inter Free Zone Summer Games

A big congratulations to the 3C Dreamers for their fantastic efforts and bringing 3C Metal to the podium with a 2nd place Silver Medal finish at the Inter Free Zone Summer Games. Team members: Arnaud, Aniket, Ashwin, Kyle, Cedric, Laurentiu, Julien and goalkeeper Bryan. All team members showed great team work and team spirit in competing against other Free Zone teams.

GREEN OFFICE WEEK

Working towards a greener future

Green Office Week was established as a part of 3C Metal Middle East's Social Responsibility Corporate and QHSE program in order to raise the environmental awareness of its employees, and to present the impact that we all have on Nature.

The activities were designed to cover one of the environmental subjects each day with a strong focus on the workplace during the first four days and a focus on general awareness during the last day. The environmental subjects were carefully selected by the 3C Metal Middle East HR and QHSE teams to highlight the eco issues in the office and in the Middle Eastern region.

The major achievement of the program was introducing reusable flasks to the 3C Metal Middle East staff to reduce plastic bottle wastage. The Green Office Week was the first edition of the environmental initiative conducted in the 3C Metal Middle East office with the aim for it to be held annually.



SUBSEA 7 — SPITBRAAI

3C Metal South Africa participate in a joint Spit Braai with Belmet Marine to celebrate the end of the Subsea 7 project

For those who aren't familiar with the expression 'Spitbraai' this is a term derived from South African slang and it refers to a method of cooking meat on a spit rotisserie machine.

On the 24th of July 2015 the event was attended by employees of Belmet Marine as well as the 114 employees from 3C Metal South Africa.

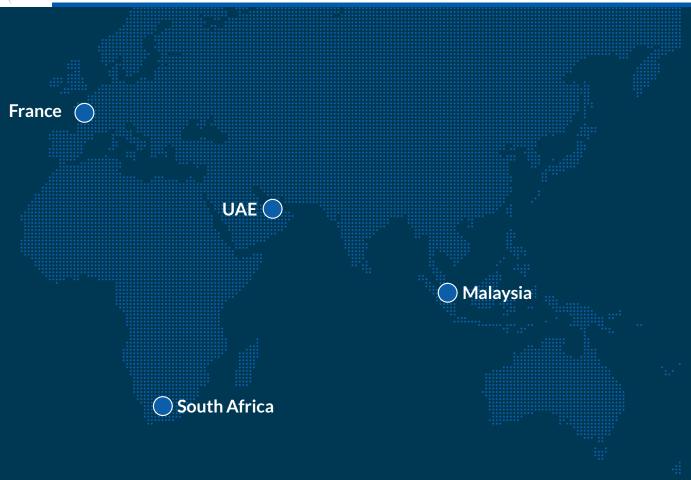
The day started with speeches from the different leaders on the Subsea 7

Projects, and ended off by several lucky draws, where all those who attended stood a chance to win gift vouchers to the value of ZAR 1500.00.

At the conclusion of the speeches, several interesting facts about the Subsea 7 project were revealed, including new safety measures adopted thanks to the project. Afterward the team had the chance to feast on the Spitbraai.







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