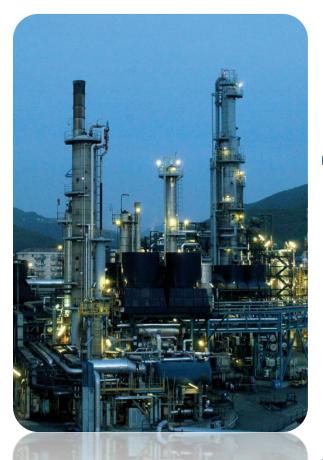
# ENDRESS & HAUSER Webmeeting 21-09-2022





The plants

**IPLOM** 



## **ATECO 19**

# 4 Sites in 2 Regions

(GENOVA, BUSALLA, ARQUATA SCRIVIA)

# Continuous cycle

Classified for rilevant accident (in according Italian low SEVESO III)

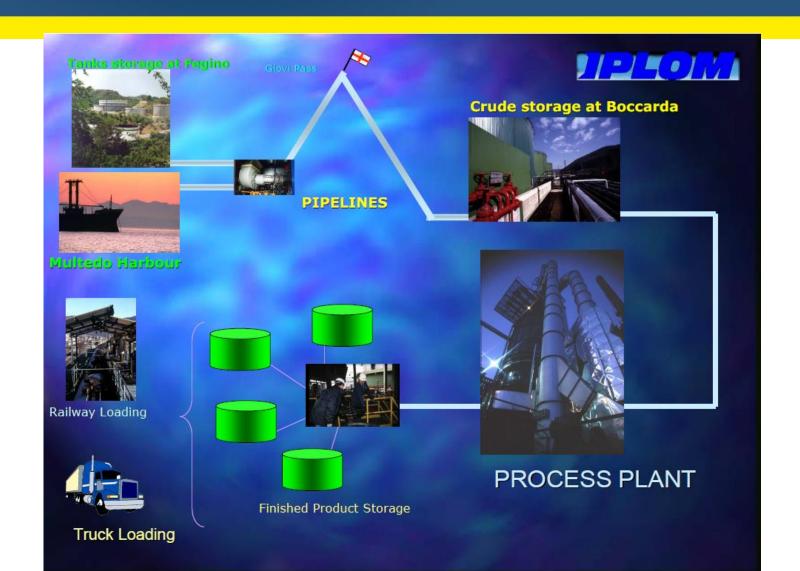
#### WHERE WE ARE?



In the North of Italy Very close to Genoa At the borders of Po's valley In a commercially strategic area **IPLOM** Giacimenti di gas naturale. Condotte di prodotti finiti Raffinerie **■** Torminali

#### Logistic cycle





### **Our history**





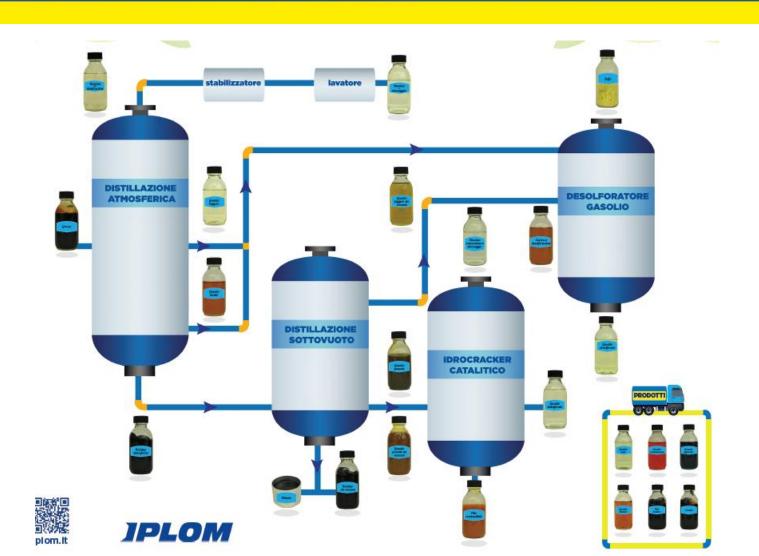
From the beginning ....

1943



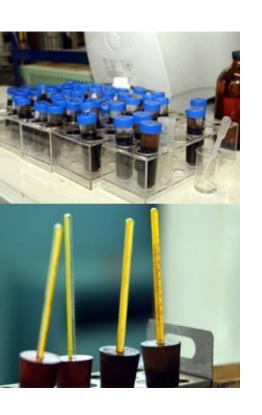
#### **INDUSTRIAL CYCLE**





#### The PRODUCTION

## **IPLOM**





Bitumen





virgin naphtha













Sulphur

#### The BUNKER LOW SULFUR









#### **QUALITY SYSTEM**

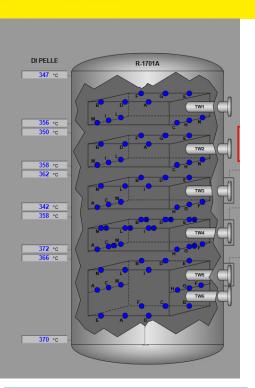
### **IPLOM**



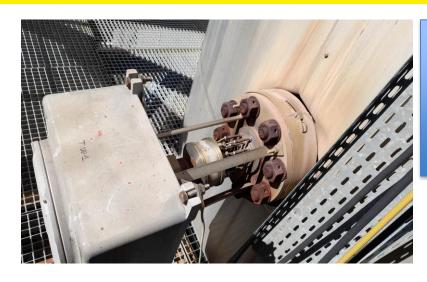
ACCREDIA T

# Desolfurization Unit R1701A - 65 Barg - 385 ° C





DCS view of reactor's temperature



HDS plant built in the 1997, on the left we can see one of the original equipment in service on the reactor

During the years, we realized lots of upgrades of the temperature measurement system using new aviable technologies

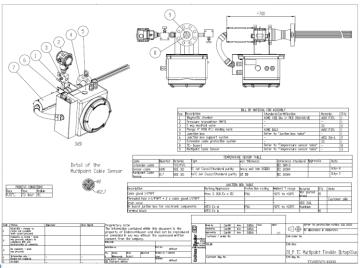


# Desolfurization Unit R1701A - 65 Barg - 385 ° C

### **IPLOM**



In 2018 IPLOM & E+H started a comparative performance test of the iTHERM MultiSens Flex TMS02 multipoint assembly temperature system



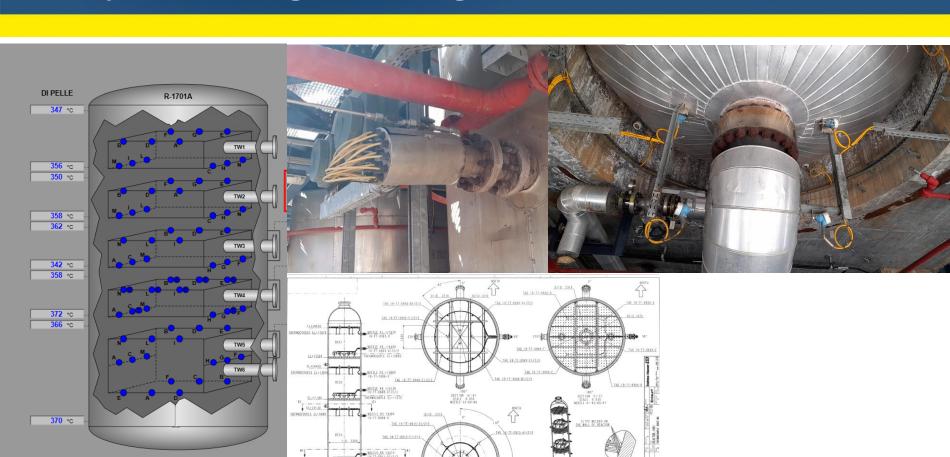
The inside pressure of the security cell is monitored by a wireless pressure transmitter and the value is sent to our control room on the DCS



## R1901 Mild Hydrocracking - 70 Barg - 385 ° C

80221E N7 12825

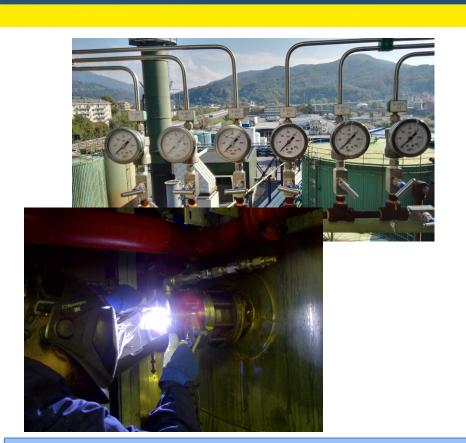




DCS view of reactor's temperature

### R1901 Mild Hydrocracking - 70 Barg - 385 ° C

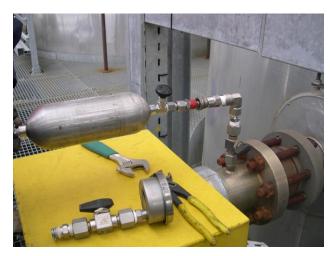




In 12 years of work of this unit, IPLOM & E+H was able to provide the engineering solutions to make all the controls and actions necessary for a continue and safe use of the temperature control system



VISCOM



#### For the future?



For IPLOM it is important to continue the partnership whit Endress & Hauser to guarantee the best options of control and insurance of the performance and optimization of the temperature measurement system.

We desire to continue to receive the necessary support to respect all the law recommendations that the technical Italian inspection

organization defines; also according to our quality system.

Thank you for your attention !!!!

Endress	`	Endress+Hauser (31)		
		People for Presson Automation		
surance	Rapporto d'interven	to		
	A: (Iplore) Raffiele Duck, Cristiano Cicardi			
	C.c.: (Endross-Hauser) Dino Mariani, Mario Ragno, Michali			
	Oggarite: Reation: R1922 ripristine funcionale termocoppie 19	TE1005C2-19TE1005D2-19TE1004D3		
	Le principali attività dei lovori in oggetto, svolti dal 7 al 9-Otto	bre 2014, sono di seguito riportate:		
	7 Ottobre (pioggia, o tratti di forte intensità)  — preparazione ed apertura permesso di lavoro;			
roopoot	<ul> <li>proporazione sito con teli di protezione contro la pioggia;</li> <li>proporazione covi alimentazione elettrica per trasformatore</li> </ul>	per utilizzo phon industriale;		THE REAL PROPERTY.
respect	<ul> <li>opertura cossetta (JB) e scollegamento termocoppia (T trosmettitore;</li> </ul>	175.64		
	verifica segnale della TC con esito negativo in quanto la malfanzionamento;     tuglio del cavo di estensione ogni 500mm circa e verifica;	1000		1 6
ection	(si segnula che il biochierino late giunto freddo di quest orimpatano con la TC, probabile motivo del completo multi	a TC era exani staccato alla bassa di con-		No.
	<ul> <li>rimotione del biochierino existente lato giunto freddo;</li> <li>collocazione di un manyo biochierino, collegamento man</li> </ul>	o cavo d'estensione alla TC		
	crimpatum a fredda, isolamento dei conduttori e resinutum	del nuovo gianto fraddo; iira nottuma per completa ass		
	Endress+Hauser 🖼			
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07.08.2017				
07.08.2017 Data di tantara				
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