

名称：南京市锅炉压力容器检验研究院

地址：江苏省南京市建邺区嘉陵江东街3号

注册号：CNAS L4390

认可依据：ISO/IEC 17025:2017 以及 CNAS 特定认可要求

生效日期：2022年10月16日 截止日期：2028年08月12日

中国合格评定国家认可委员会  
认可证书附件

附件3 认可的检测能力范围

序号	检测对象	项目/参数		检测标准（方法）	说明	生效日期
		序号	名称			
1	工业锅炉热工性能	1	燃料消耗量	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
		2	流量	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
		3	压力	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
		4	温度	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG 91-2021, GB/T 10180-2017		2022-10-16
		5	饱和蒸汽湿度	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
		6	过热蒸汽含盐量	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16



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		7	排烟处烟气成分 (O <sub>2</sub> 、CO、CO <sub>2</sub> 、NO <sub>x</sub> )	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
		8	称重 (煤、炉渣、漏煤、飞灰)	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
		9	耗电量	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
		10	热效率	《锅炉节能环保技术规程》《工业锅炉热工性能试验规程》 TSG91-2021, GB/T 10180-2017		2022-10-16
2	电站锅炉热工性能	1	燃料消耗量	《电站锅炉性能试验规程》 GB/T 10184-2015		2022-10-16
		2	流量	《电站锅炉性能试验规程》 GB/T 10184-2015		2022-10-16
		3	压力	《电站锅炉性能试验规程》 GB/T 10184-2015		2022-10-16
		4	温度	《电站锅炉性能试验规程》 GB/T 10184-2015		2022-10-16
		5	烟气成分 (O <sub>2</sub> 、CO、CO <sub>2</sub> 、NO <sub>x</sub> )	《电站锅炉性能试验规程》 GB/T 10184-2015		2022-10-16
3	金属材料及其制品	1	射线检测	《承压设备无损检测 第2部分：射线检测》，《承压设备无损检测 第1部分：通用要求》 NB/T47013.2-2015, NB/T47013.1-2015		2022-10-16
		2	超声检测	《承压设备无损检测 第3部分：超声检测》，《承压设备无损检测 第1部分：通用要求》 NB/T47013.3-2015, NB/T47013.1-2015		2022-10-16
		3	磁粉检测	《承压设备无损检测 第4部分：磁粉检测》，《承压		2022-10-16



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				设备无损检测 第1部分：通用要求》 NB/T47013.4-2015,NB/T47013.1-2015	会	
		4	渗透检测	《承压设备无损检测 第5部分：渗透检测》，《承压设备无损检测 第1部分：通用要求》 NB/T47013.5-2015,NB/T47013.1-2015		2022-10-16
		5	涡流检测	《承压设备无损检测 第6部分：涡流检测》，《承压设备无损检测 第1部分：通用要求》 NB/T47013.6-2015,NB/T47013.1-2015		2022-10-16
		6	声发射检测	《金属压力容器声发射检测及结果评价方法》，《无损检测 常压金属储罐声发射检测及评价方法》，《承压设备无损检测 第9部分：声发射检测》，《承压设备无损检测第1部分：通用要求》 GB/T 18182-2012, JB/T10764-2007, NB/T47013.9-2012, NB/T47013.1-2015		2022-10-16
		7	漏磁检测	《承压设备无损检测 第12部分：漏磁检测》，《承压设备无损检测 第1部分：通用要求》，《无损检测 常压金属储罐漏磁检测方法》 NB/T47013.12-2015, NB/T47013.1-2015, JB/T10765-2007		2022-10-16
4	金属材料及其制品（微观机构）	1	金相检验	《金属显微组织检验方法》，《钢的显微组织评定方法》，《钢的低倍组织及缺陷酸蚀检验法》 GB/T 13298-2015, GB/T13299-1991, GB/T 226-2015		2022-10-16
5	金属与合金	1	C、Si、Mn、P、S、Cr、Mo、Ni、Al、Cu、Ti、V、W	《火花放电原子发射光谱分析法通则》，《不锈钢 多元素含量的测定 火花放电原子发射光谱法（常规法）》，《碳素钢和中低合金钢 多元素含量的测定 火花放电原子发射光谱法（常规法）》 GB/T 14203-2016, GB/T 11170-2008, GB/T 4336-2016	只测：C、Si、Mn、P、S、Cr、Mo、Ni、Al、Cu、Ti、V、W 共13种元素	2022-10-16



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6	金属材料及其制品（机械性能）	1	硬度测试	《金属材料 里氏硬度试验 第1部分：试验方法》 GB/T 17394.1-2014		2022-10-16
7	等电位连接装置	1	过渡电阻	《建筑物防雷装置检测技术规范》，《石油与石油设施雷电安全规范》 GB/T21431-2015, GB15599-2009		2022-10-16
8	防静电接地装置	1	静电装置接地电阻	《建筑物防雷装置检测技术规范》，《立式圆筒形钢制焊接储罐安全技术规范》，《防止静电事故通用导则》 GB/T21431-2015, AQ 3053-2015, GB12158-2006		2022-10-16
9	接地装置	1	接地电阻	《立式圆筒形钢制焊接储罐安全技术规范》，《建筑物防雷装置检测技术规范》，《石油与石油设施雷电安全规范》 AQ 3053-2015, GB/T21431-2015, GB15599-2009		2022-10-16



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注册号：CNAS L4390

认可依据：ISO/IEC 17025:2017 以及 CNAS 特定认可要求

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1	工业锅炉水质分析	1	溶解固形物	《工业锅炉水质》，《锅炉安全技术规程》 GB/T 1576-2018, TSG 11-2020	只用：固导比法、重量法	2022-10-16
		2	碱度	《工业锅炉水质》，《锅炉安全技术规程》 GB/T 1576-2018, TSG 11-2020		2022-10-16
		3	亚硫酸盐	《工业锅炉水质》，《锅炉安全技术规程》 GB/T 1576-2018, TSG 11-2020		2022-10-16
		4	溶解氧	《工业锅炉水质》，《锅炉安全技术规程》 GB/T 1576-2018, TSG 11-2020		2022-10-16
		5	浊度	《工业锅炉水质》，《锅炉安全技术规程》，《工业循环冷却水中浊度的测定 散射光法》 GB/T 1576-2018, TSG 11-2020, GB/T 15893.1-2014		2022-10-16



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		6	油	《锅炉用水和冷却水中油含量的测定》，《锅炉安全技术规程》，《工业锅炉水质》 GB/T 12152-2007, TSG 11-2020, GB/T 1576-2018	只用：红外光度法	2022-10-16
		7	氯化物	《工业循环冷却水和锅炉用水中氯离子的测定》，《锅炉安全技术规程》，《工业锅炉水质》 GB/T 15453-2018, TSG 11-2020, GB/T 1576-2018	只用：摩尔法	2022-10-16
		8	磷酸盐	《锅炉用水和冷却水分析方法磷酸盐的测定》，《锅炉安全技术规程》，《工业锅炉水质》 GB/T 6913-2008, TSG 11-2020, GB/T 1576-2018		2022-10-16
		9	电导率	《锅炉用水和冷却水分析方法电导率的测定》，《锅炉安全技术规程》，《工业锅炉水质》 GB/T 6908-2018, TSG 11-2020, GB/T 1576-2018		2022-10-16
		10	全铁	《火力发电厂水、汽试验方法 铜、铁的测定 原子吸收分光光度法》，《火力发电厂水汽分析方法-第 25 部分：全铁的测量》，《锅炉安全技术规程》，《工业锅炉水质》 DL/T 955-2016, DL/T 502.25-2019, TSG 11-2020, GB/T 1576-2018		2022-10-16
		11	pH 值	《工业循环冷却水及锅炉用水中 pH 的测定》，《锅炉安全技术规程》，《工业锅炉水质》 GB/T 6904-2008, TSG 11-2020, GB/T 1576-2018		2022-10-16
		12	硬度	《锅炉用水和冷却水分析方法硬度的测定》，《锅炉安全技术规程》，《工业锅炉水质》 GB/T 6909-2018, TSG 11-2020, GB/T 1576-2018		2022-10-16
2	电站锅炉水质分析	1	硬度	《锅炉用水和冷却水分析方法硬度的测定》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 GB/T 6909-2018, TSG 11-2020, GB/T 12145-2016		2022-10-16



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		2	磷酸盐	《锅炉用水和冷却水分析方法磷酸盐的测定》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 GB/T 6913-2008, TSG 11-2020, GB/T 12145-2016		2022-10-16
		3	铁	《火力发电厂水、汽试验方法 铜、铁的测定 原子吸收分光光度法》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 DL/T 955-2016, TSG 11-2020, GB/T 12145-2016		2022-10-16
		4	pH 值	《工业循环冷却水及锅炉用水中 pH 的测定》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 GB/T 6904-2008, TSG 11-2020, GB/T 12145-2016		2022-10-16
		5	电导率	《锅炉用水和冷却水分析方法电导率的测定》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 GB/T 6908-2018, TSG 11-2020, GB/T 12145-2016		2022-10-16
		6	钠离子	《工业循环冷却水和锅炉用水中钾、钠含量的测定》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 GB/T 14640-2017, TSG 11-2020, GB/T 12145-2016		2022-10-16
		7	二氧化硅	《工业循环冷却水和锅炉用水中硅的测定》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 GB/T 12149-2017, TSG 11-2020, GB/T 12145-2016		2022-10-16
		8	溶解氧	《工业锅炉水质》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 GB/T 1576-2018, TSG 11-2020, GB/T 12145-2016		2022-10-16
		9	铜	《火力发电厂水、汽试验方法 铜、铁的测定 原子吸收分光光度法》，《锅炉安全技术规程》，《火力发电机组及蒸汽动力设备水汽质量》 DL/T 955-2016, TSG 11-		2022-10-16



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				2020, GB/T 12145-2016		
3	有机热载体分析	1	闪点	《闪点的测定 宾斯基-马丁闭口杯法》，《锅炉安全技术规程》，《有机热载体安全技术条件》 GB/T 261-2021, TSG 11-2020, GB24747-2009		2022-10-16
		2	酸值	《有机热载体安全技术条件》，《锅炉安全技术规程》 GB24747-2009, TSG 11-2020		2022-10-16
		3	运动粘度	《石油产品运动粘度测定法和动力粘度计算法》，《锅炉安全技术规程》，《有机热载体安全技术条件》 GB/T 265-1988, TSG 11-2020, GB24747-2009		2022-10-16
		4	残碳	《石油产品 残炭的测定 微量法》，《锅炉安全技术规程》，《有机热载体安全技术条件》 GB/T 17144-2021, TSG 11-2020, GB24747-2009		2022-10-16
		5	水分	《石油产品、润滑油和添加剂中水含量的测定 卡尔费休库仑滴定法》，《锅炉安全技术规程》，《有机热载体安全技术条件》 GB/T 11133-2015, TSG 11-2020, GB24747-2009		2022-10-16
		6	5%低沸物馏出温度	《石油产品常压蒸馏特性测定法》，《锅炉安全技术规程》，《有机热载体安全技术条件》 GB/T 6536-2010, TSG 11-2020, GB24747-2009		2022-10-16
		7	水溶性酸碱	《石油产品水溶性酸及碱测定法》，《锅炉安全技术规程》，《有机热载体安全技术条件》 GB 259-1988, TSG 11-2020, GB24747-2009		2022-10-16
		8	密度	《原油和石油产品密度测定法（U形振动管法）》，《锅炉安全技术规程》，《有机热载体安全技术条件》 SH/T 0604-2000, TSG 11-2020, GB24747-2009		2022-10-16





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4	安全阀	1	安全阀校验	《安全阀安全技术监察规程》 TSG ZF001-2006		2022-10-16

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注册号：CNAS L4390

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1	安全阀	1	安全阀校验	《安全阀安全技术监察规程》 TSG ZF001-2006		2022-10-16
2	环境空气和废气	1	挥发性有机物 (VOCs)	《泄漏和敞开液面排放的挥发性有机物检测技术导则》，《南京化工园区企业挥发性气体无泄漏检测规程》 HJ733-2014, 宁化环字[2015]38 号	只用：火焰离子化检测法、光离子化检测法	2022-10-16
		2	总烃	《环境空气 总烃、甲烷和非甲烷总烃的测定 直接进样-气相色谱法》 HJ 604-2017		2022-10-16
		3	甲烷	《环境空气 总烃、甲烷和非甲烷总烃的测定 直接进样-气相色谱法》 HJ 604-2017		2022-10-16
		4	非甲烷总烃	《环境空气 总烃、甲烷和非甲烷总烃的测定 直接进样-气相色谱法》 HJ 604-2017		2022-10-16



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Registration No. CNAS L4390

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2022-10-16 Expiry Date: 2028-08-12

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Industrial Boilers Thermal Performance	1	Fuel consumption	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
		2	Flow	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
		3	Pressure	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
		4	Temperature	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG 91-2021,GB/T 10180-2017		2022-10-16
		5	Saturated steam humidity	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
		6	Superheated steam salt content	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code		2022-10-16



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				for industrial boilers TSG91-2021,GB/T 10180-2017		
		7	Gas components (O <sub>2</sub> , CO, CO <sub>2</sub> , NO <sub>x</sub> )	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
		8	Weigh	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
		9	Power consumption	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
		10	Thermal efficiency	Regulation on Energy Conservation and Environmental Protection Technology for Boiler,Thermal performance test code for industrial boilers TSG91-2021,GB/T 10180-2017		2022-10-16
2	Utility Boilers Thermal Performance	1	Fuel consumption	Performance Test Code for Utility Boiler GB/T 10184-2015		2022-10-16
		2	Flow	Performance Test Code for Utility Boiler GB/T 10184-2015		2022-10-16
		3	Pressure	Performance Test Code for Utility Boiler GB/T 10184-2015		2022-10-16
		4	Temperature	Performance Test Code for Utility Boiler GB/T 10184-2015		2022-10-16
		5	Gas components (O <sub>2</sub> , CO, CO <sub>2</sub> , NO <sub>x</sub> )	Performance Test Code for Utility Boiler GB/T 10184-2015		2022-10-16
3	Metalmaterial &Product	1	Radiographic testing	Nondestructive testing of pressure equipments:Radiographic testing,Nondestructive testing of pressure equipments NB/T47013.2-2015,NB/T47013.1-2015		2022-10-16
		2	Ultrasonic testing	Nondestructive testing of pressure equipments:Ultrasonic testing,Nondestructive testing of pressure equipments		2022-10-16



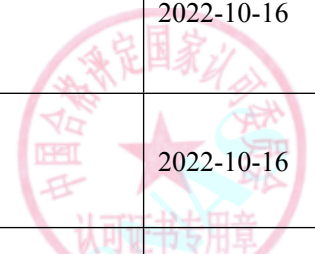
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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				NB/T47013.3-2015,NB/T47013.1-2015		
		3	Magnetic particle testing	Nondestructive testing of pressure equipments:Magnetic particle testing,Nondestructive testing of pressure equipments NB/T47013.4-2015,NB/T47013.1-2015		2022-10-16
		4	Penetrant testing	Nondestructive testing of pressure equipments:Penetrant testing,Nondestructive testing of pressure equipments NB/T47013.5-2015,NB/T47013.1-2015		2022-10-16
		5	Eddy current testing	Nondestructive testing of pressure equipments:Eddy current testing,Nondestructive testing of pressure equipments NB/T47013.6-2015,NB/T47013.1-2015		2022-10-16
		6	Acoustic emission testing	Acoustic emission examination and evaluation of metallic pressure vessels,Non-destructive testing-Acoustic emission testing and evaluation of atmospheric pressure metal storage tanks,Nondestructive testing of pressure equipments:Acoustic emission testing,Nondestructive testing of pressure equipments GB/T 18182-2012,JB/T10764-2007,NB/T47013.9-2012,NB/T47013.1-2015		2022-10-16
		7	Magnetic flux leakage testing	Nondestructive testing of pressure equipments:Magnetic flux leakage testing,Nondestructive testing of pressure equipments,Non-destructive testing-Magnetic flux leakage testing of atmospheric pressure metal storage tanks NB/T47013.12-2015,NB/T47013.1-2015,JB/T10765-2007		2022-10-16
4	Metalmaterial & Product(Micro structure)	1	Metallographic examination	Inspection methods of microstructure for metals,Steel— Determination of microstructure,Test method for macrostructure and defect of steel by etching GB/T 13298-2015,GB/T13299-1991,GB/T 226-2015		2022-10-16
5	Metal and Alloy	1	Spectroanalysis	General rules for spark discharge atomic emission spectrometry,Stainless steel- Determination of multi-element contents-Spark discharge atomic emission spectrometric method		2022-10-16



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				(routine method),Carbon and low-alloy steel-Determination of multi-element contents-Spark discharge atomic emission spectrometric method(routine method) GB/T 14203-2016,GB/T 11170-2008,GB/T 4336-2016		
6	Metalmaterial & Product(Mechanical property)	1	Hardness test	Metallic materials-Leeb hardness test-Part 1:Test method GB/T 17394.1-2014		2022-10-16
7	Equipotential Bonding	1	Transition resistance	Technical code for inspection of lightning protection system in building,Safety rules of lightning with relation to petroleum and its facilities, GB/T21431-2015, GB15599-2009		2022-10-16
8	Anti-static grounding device	1	Anti-Static ground resistance	Technical code for inspection of lightning protection system in building,Safety technical code for vertical cylindrical steel welded tank,General guideline for preventing electrostatic accidents GB/T21431-2015,AQ 3053-2015,GB12158-2006		2022-10-16
9	Grounding device	1	Ground resistance	Safety technical code for vertical cylindrical steel welded tank, Technical code for inspection of lightning protection system in building,Safety rules of lightning with relation to petroleum and its facilities, Fire prevention code of petrochemical enterprise design,Code for design of oil transportation pipeline engineering,Code for design of gas transmission pipeline engineering AQ 3053-2015,GB/T21431-2015,GB15599-2009		2022-10-16



No. CNAS L4390

Name: Nanjing Boiler and Pressure Vessel Supervision & Inspection Institute

Address: No.1828, Chengxin Road, Jiangning District, Nanjing, Jiangsu, China

Registration No. CNAS L4390

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2022-10-16 Expiry Date: 2028-08-12

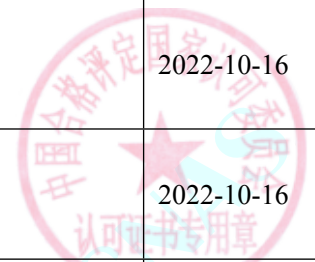
SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Industrial Boilers water analysis	1	Dissolved solid	Water quality for industrial boilers,Regulation on Safety Technology for Boiler GB/T 1576-2018,TSG 11-2020	标准年代号更新。	2022-10-16
		2	Alkalinity	Water quality for industrial boilers,Regulation on Safety Technology for Boiler GB/T 1576-2018,TSG 11-2020	标准年代号更新。	2022-10-16
		3	Sulfite	Water quality for industrial boilers,Regulation on Safety Technology for Boiler GB/T 1576-2018,TSG 11-2020		2022-10-16
		4	Dissolved Oxygen	Water quality for industrial boilers,Regulation on Safety Technology for Boiler GB/T 1576-2018,TSG 11-2020		2022-10-16
		5	Turbidity	Water quality for industrial boilers,Regulation on Safety Technology for Boiler, Industrial circulating cooling water—Determination of turbidity—Diffused radiation method GB/T 1576-2018,TSG 11-2020, GB/T 15893.1-2014		2022-10-16
		6	Oil	Water for boiler and cooling system-Determination of mineral oil,Regulation on Safety Technology for Boiler,Water quality for industrial boilers GB/T 12152-2007,TSG 11-2020,GB/T 1576-2018		2022-10-16



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
		7	Chloride	Water for industrial circulating cooling system and boiler - Determination of chloride,Regulation on Safety Technology for Boiler,Water quality for industrial boilers GB/T 15453-2018,TSG 11-2020,GB/T 1576-2018		2022-10-16
		8	Phosphate	Analysis of water used in boiler and cooling system - Determination of phosphorus,Regulation on Safety Technology for Boiler,Water quality for industrial boilers GB/T 6913-2008,TSG 11-2020,GB/T 1576-2018		2022-10-16
		9	Electrical conductivity	Analysis of water used in boil and cooling system-Determination of electrical conductivity,Regulation on Safety Technology for Boiler,Water quality for industrial boilers GB/T 6908-2018,TSG 11-2020,GB/T 1576-2018		2022-10-16
		10	Total iron	Analysis of water and steam in fossil fuel power plant Determination of copper and iron by graphite furnace atomic absorption spectrophotometry,Analytical methods of steam and water in power plants Part 25: Determination of iron (Spectrometric method using sulphosalicylic acid),Regulation on Safety Technology for Boiler,Water quality for industrial boilers DL/T 955-2016,DL/T 502.25-2019,TSG 11-2020,GB/T 1576-2018		2022-10-16
		11	PH Value	Water used in industrial circulating cooling system and boiler - Determination of pH,Regulation on Safety Technology for Boiler,Water quality for industrial boilers GB/T 6904-2008,TSG 11-2020,GB/T 1576-2018		2022-10-16
		12	Hardness	Analysis of water used in boiler and cooling system - Determination of hardness,Regulation on Safety Technology for Boiler,Water quality for industrial boilers GB/T 6909-2018,TSG 11-2020,GB/T 1576-2018		2022-10-16
2	Utility Boilers water analysis	1	Hardness	Analysis of water used in boiler and cooling system - Determination of hardness,Regulation on Safety Technology for		2022-10-16



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Boiler,Quality criterion of water and steam for power plant and steam-generating equipment GB/T 6909-2018,TSG 11-2020,GB/T 12145-2016		
		2	Phosphate	Analysis of water used in boiler and cooling system - Determination of phosphorus,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment GB/T 6913-2008,TSG 11-2020,GB/T 12145-2016		2022-10-16
		3	Iron	Analysis of water and steam in fossil fuel power plant Determination of copper and iron by graphite furnace atomic absorption spectrophotometry,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment DL/T 955-2016,TSG 11-2020,GB/T 12145-2016		2022-10-16
		4	PH Value	Water used in industrial circulating cooling system and boiler - Determination of pH,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment GB/T 6904-2008,TSG 11-2020,GB/T 12145-2016		2022-10-16
		5	Electrical conductivity	Analysis of water used in boil and cooling system-Determination of electrical conductivity,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment GB/T 6908-2018,TSG 11-2020,GB/T 12145-2016		2022-10-16
		6	Sodion	Water used in industrial circulating cooling system and boiler - Determination of potassium and sodium,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment GB/T 14640-2017,TSG 11-2020,GB/T 12145-2016		2022-10-16
		7	Silicon dioxide	Water for industrial circulating cooling system and boiler-		2022-10-16



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
				Determination of silica,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment GB/T 12149-2017,TSG 11-2020,GB/T 12145-2016		
		8	Dissolved Oxygen	Water quality for industrial boilers,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment GB/T 1576-2018,TSG 11-2020,GB/T 12145-2016		2022-10-16
		9	Copper	Analysis of water and steam in fossil fuel power plant Determination of copper and iron by graphite furnace atomic absorption spectrophotometry,Regulation on Safety Technology for Boiler,Quality criterion of water and steam for power plant and steam-generating equipment DL/T 955-2016,TSG 11-2020,GB/T 12145-2016		2022-10-16
3	Heat transfer fluids analysis	1	Flash point	Determination of flash point - Pensky-Martens closed cup method,Regulation on Safety Technology for Boiler,Safety technology conditions for heat transfer fluids GB/T 261-2021,TSG 11-2020,GB24747-2009		2022-10-16
		2	Acid value	Safety technology conditions for heat transfer fluids,Regulation on Safety Technology for Boiler GB24747-2009,TSG 11-2020		2022-10-16
		3	Kinematic viscosity	Petroleum products-Determination of kinematic viscosity and calculation of dynamic viscosity,Regulation on Safety Technology for Boiler,Safety technology conditions for heat transfer fluids GB/T 265-1988,TSG 11-2020,GB24747-2009		2022-10-16
		4	Residual carbon	Petroleum products--Determination of carbon residue--Micro method,Regulation on Safety Technology for Boiler,Safety technology conditions for heat transfer fluids GB/T 17144-2021,TSG 11-2020,GB24747-2009		2022-10-16
		5	Moisture	Standard test method for determination of water in petroleum products,lubricating oils,and additives—Coulometric Karl		2022-10-16



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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				Fischer titration method,Regulation on Safety Technology for Boiler,Safety technology conditions for heat transfer fluids GB/T 11133-2015,TSG 11-2020,GB24747-2009		
		6	Distillation temperature of 5% low-boiling component	Standard test method for distillation of petroleum products at atmospheric pressure,Regulation on Safety Technology for Boiler,Safety technology conditions for heat transfer fluids GB/T 6536-2010,TSG 11-2020,GB24747-2009		2022-10-16
		7	water-soluble acid-base	Petroleum products-Determination of water-soluble acids and alkalis,Regulation on Safety Technology for Boiler,Safety technology conditions for heat transfer fluids GB 259-1988,TSG 11-2020,GB24747-2009		2022-10-16
		8	Density	Crude petroleum and petroleum products-Determination of density-Oscillating U-tube method,Regulation on Safety Technology for Boiler,Safety technology conditions for heat transfer fluids SH/T 0604-2000,TSG 11-2020,GB24747-2009		2022-10-16
4	Safety Valves	1	Safety valve inspection	Safety Technical Supervision Regulations for Safety Valves TSG ZF001-2006		2022-10-16



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Name: Nanjing Boiler and Pressure Vessel Supervision & Inspection Institute

Address: No.28, Dingjiawa, Guyijing, Xishanqiao, Yuhuatai District, Nanjing, Jiangsu, China

Registration No. CNAS L4390

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

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SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
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1	Safety Valves	1	Safety valve inspection	Safety Technical Supervision Regulations for Safety Valves TSG ZF001-2006		2022-10-16



No. CNAS L4390

Name: Nanjing Boiler and Pressure Vessel Supervision & Inspection Institute

Address: No. 150, Tiansheng Road, Liuhe District, Nanjing, Jiangsu, China

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1	Safety Valves	1	Safety valve inspection	Safety Technical Supervision Regulations for Safety Valves TSG ZF001-2006		2022-10-16
2	Ambient air and exhaust	1	VOCs	HJ733-2014	only:Flame ionization detection,P hotoionizati on detection method	2022-10-16
		2	THC	Ambient air—Determination of total hydrocarbons, methane and nonmethane hydrocarbons—Direct injection/Gas chromatography HJ 604-2017		2022-10-16
		3	CH4	Ambient air—Determination of total hydrocarbons, methane and nonmethane hydrocarbons—Direct injection/Gas chromatography HJ 604-2017		2022-10-16
		4	NMHC	Ambient air—Determination of total hydrocarbons, methane and nonmethane hydrocarbons—Direct injection/Gas chromatography HJ 604-2017		2022-10-16

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