|  |  |  |  |
| --- | --- | --- | --- |
| **更新时间** | **更新内容** |  |  |
| **2021-09-24** | **完善接口2添加接口3，接口4** |  |  |
| **2021-10-12** | **修改接口2参数，添加接口5，6、7、8** |  |  |
| **2021-10-12** | **更新3，4接口，标黄内容（内控合规）** |  |  |

**测试环境IP+端口：**

# 审批中心列表

<http://localhost:44389/API/AppvoalCenterAPI/GetWFListByPage>

## **参数：**{"empCode":10101887,

"pageIndex": 1,

"pageSize": 10,

"start":"2019-01-01",

"end":"2021-01-01"}

## **参数说明：**empCode 用户编码，pageIndex 页码，pageSize 每页条数，start 查询开始日期，end 结束日期

## **返回值：**{

    "flag": 1,

    "msg": "success",

    "data": {

        "listData": [

            {

                "id": 1230480,

                "workFlowKey": "baldr\_2\_2166\_3921\_164854\_2835345\_2012\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "外包完工验收单",

                "nowActivity": "完工申请",

                "fromType": "发送",

                "sendUser": "杨震",

                "sendDateTime": "2019-05-17",

                "kind": "中电华创",

                "subkind": **null**

            },

            {

                "id": 1230479,

                "workFlowKey": "baldr\_2\_2166\_3921\_164853\_2835338\_2011\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "外包完工验收单",

                "nowActivity": "完工申请",

                "fromType": "发送",

                "sendUser": "杨震",

                "sendDateTime": "2019-05-17",

                "kind": "中电华创",

                "subkind": **null**

            },

            {

                "id": 1230470,

                "workFlowKey": "baldr\_2\_2166\_3927\_164838\_2834831\_2009\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "外包完工验收单",

                "nowActivity": "财务经营部领导审批",

                "fromType": "发送",

                "sendUser": "田亮",

                "sendDateTime": "2019-05-17",

                "kind": "中电华创",

                "subkind": **null**

            },

            {

                "id": 1230125,

                "workFlowKey": "baldr\_2\_2166\_3921\_164813\_2833532\_2007\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "外包完工验收单",

                "nowActivity": "完工申请",

                "fromType": "发送",

                "sendUser": "杨震",

                "sendDateTime": "2019-02-19",

                "kind": "中电华创",

                "subkind": **null**

            },

            {

                "id": 1225953,

                "workFlowKey": "baldr\_2\_2166\_3931\_160779\_2823462\_1007\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "外包完工验收单",

                "nowActivity": "档案验收",

                "fromType": "发送",

                "sendUser": "孙晔",

                "sendDateTime": "2019-01-04",

                "kind": "中电华创",

                "subkind": **null**

            },

            {

                "id": 1223809,

                "workFlowKey": "baldr\_2\_2166\_3927\_158727\_2818790\_1226001\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "内容",

                "nowActivity": "财务经营部领导审批",

                "fromType": "发送",

                "sendUser": "田亮",

                "sendDateTime": "2018-12-27",

                "kind": "中电华创",

                "subkind": **null**

            },

            {

                "id": 1223789,

                "workFlowKey": "baldr\_2\_2166\_3921\_158730\_2818808\_333\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "333",

                "nowActivity": "完工申请",

                "fromType": "发送",

                "sendUser": "杨震",

                "sendDateTime": "2018-12-26",

                "kind": "中电华创",

                "subkind": **null**

            },

            {

                "id": 1223787,

                "workFlowKey": "baldr\_2\_2166\_3921\_158729\_2818801\_222\_10101887",

                "workFlowName": "外包项目完工验收流程",

                "workFlowCode": "WBYS",

                "formLable": "222",

                "nowActivity": "完工申请",

                "fromType": "发送",

                "sendUser": "杨震",

                "sendDateTime": "2018-12-26",

                "kind": "中电华创",

                "subkind": **null**

            }

        ],

        "total": 8

    }

}

## **返回值说明：**Data 数据集合，Total 本页条数

ID 单据ID（详情接口用作入参），WorkFlowName 流程名称，WorkFlowCode 流程编码（详情接口用作入参），FormLable 单据名称，NowActivity 当前节点，FromType表单流转方向（列表展示按钮），SendUser 发送人，SendDateTime 发送时间，Kind 公司

# 单据详情

[http://localhost:44389/API/AppvoalCenterAPI/GetRTFormInfos?workFlowCode=WBYS&workFlowKey=baldr\_1\_162\_2020\_365569\_5409982\_10715\_00001119](http://localhost:44389/API/AppvoalCenterAPI/GetRTFormInfos?WorkFlowCode=WBYS&ID=4204)

## **参数**：workFlowCode 流程编码（本次外包完工验收申请流程编码为WBYS）

workFlowKey取自列表接口返回的WorkFlowKey，baldr\_2\_2166\_3931\_160779\_2823462\_**1007**\_10101887

## **返回值：**{

    "flag": 1,

    "msg": "success",

    "data": {

        "formData": {

            "djbh": "WBPMWGYS\_202011\_031",

            "cwxm": "True",

            "xmmc": "WBPM\_201910\_012|4x330MW发电机组除灰运行维护（2020.02.01-2022.01.31）",

            "cbs": "常熟市先行电力综合服务有限公司",

            "jxsx": "其他",

            "zy": "燃灰",

            "sgglbm": "发电部",

            "sgglbz": "辅控1班",

            "htkgrq": **null**,

            "htjgrq": **null**,

            "htdaycount": **null**,

            "sjkgrq": "2020/2/1 0:00:00",

            "sjjgrq": **null**,

            "sjdaycount": **null**,

            "jdkgrq": "2020/8/1 0:00:00",

            "jdjgrq": "2020/10/31 0:00:00",

            "jddaycount": "91",

            "zjzldj": "2",

            "yszldj": "2",

            "zbq": "6",

            "gcdd": "江苏省常熟经济技术开发区兴港路28号",

            "zzjs": "False",

            "zywgnr": "1.4x330MW发电机组除灰运行维护；\r\n2.按技术协议规定的工作范围；",

            "yssm": "已按合同要求完成工作计划，疫情期间对承揽项目无影响，验收合格，无资料移交。八月份绩效94分，九月份绩效93分，十月份绩效95分。",

            "yqjkhsm": "无",

            "jxkhsm": "无",

            "ylwt": "无",

            "sqr": "张建军",

            "sqsj": "2020/11/10 15:41:00",

"judgementText": ""

        },

        "ftpAttachment": [

            {

                "ftpCode": **null**,

                "fileName": **null**,

                "fileExt": **null**,

                "fileFullName": "除灰8-10月季度结算工程量签证单.pdf",

                "fileNameOnFTP": **null**,

                "fileAddress": "外包项目完工验收/WBPMWGYS\_202011\_031/50579816-450f-48bd-b36c-facee32654d9.pdf"

            },

            {

                "ftpCode": **null**,

                "fileName": **null**,

                "fileExt": **null**,

                "fileFullName": "除灰8-10月季度结算完工验收报告.pdf",

                "fileNameOnFTP": **null**,

                "fileAddress": "外包项目完工验收/WBPMWGYS\_202011\_031/40211ca2-a011-4c7a-9dcd-755d2f160d59.pdf"

            }

        ],

        "suggestions": [

            {

                "id": **null**,

                "rtKey": **null**,

                "suggestionContent": "2020/11/10 16:06:00",

                "suggestionTime": "2020-11-10T16:06:00",

                "isDel": **null**,

                "uid": **null**,

                "uName": "张建军"

            },

            {

                "id": **null**,

                "rtKey": **null**,

                "suggestionContent": "同意",

                "suggestionTime": "2020-11-11T11:23:00",

                "isDel": **null**,

                "uid": **null**,

                "uName": "陈祥东"

            }

        ],

        "isApprove": 0,

        "isSend": 0,

        "isRefuse": 0,

        "isTransmit": 0,

        "isCompliance": 0,

        "isRunning": 1,

        "isSuggestion": 0,

        "isExpandSuggestion": 1,

        "isExpandWFHistory": 0,

        "isExpandFile": 0,

        "isReadOnly": 0

    }

}

## **返回值说明：data:**formData 表单数据，ftpAttachment 附件列表，suggestions 审批历史

formData{

 "djbh": 单据编号,

            "cwxm": 常维项目,

            "xmmc": 项目名称,

            "cbs": 承包商,

            "jxsx": 检修属性,

            "zy": 专业,

            "sgglbm": 施工管理部门,

            "sgglbz": 施工管理班组,

            "htkgrq": **合同开工日期**,

            "htjgrq": 合同竣工日期,

            "htdaycount": **合同工期**,

            "sjkgrq": 实际开工日期,

            "sjjgrq": **实际竣工日期**,

            "sjdaycount": **实际工期**,

            "jdkgrq": 阶段性开工日期,

            "jdjgrq": 阶段性竣工日期,

            "jddaycount": 实际天数,

            "zjzldj": 自检质量等级,

            "yszldj": 验收质量等级,

            "zbq": 质保期,

            "gcdd": 工程地点,

            "zzjs": 最终结算,

            "zywgnr": 主要完工内容及情况说明,

            "yssm": 验收说明,

            "yqjkhsm": 延期及考核说明,

            绩效考核情况说明: "无",

            遗留问题: "无",

            "sqr": 申请人,

            "sqsj": 申请时间,

"judgementText": 点击发送按钮时弹出一个选择，这个字段是显示的内容，例如：“是否进行联合验收？”然后选择是（“true”）否（“false”）,作为下一个接口，发送前接口/发送接口的参数

}

ftpAttachment: [

                "fileFullName": 文件名,

                "fileAddress": 地址

            }

suggestions: {

                "suggestionContent": 审批意见,

                "suggestionTime": 审批时间,

                "uName": 审批人

            }

"isSend": 0可以发送，1不可以发送,

        "isRefuse": 0可以回退，1不可以回退,

        "isTransmit": 0可以转发，1不可以转发,

# 发送前（点击详情页面的发送按钮调用）POST

<http://localhost:44389/API/WFConfig/WFSendNextBefore>

## **参数**：{"RTKey":"baldr\_1\_162\_2023\_364566\_5408895\_9711\_00000159",

"UID": "00000159",

"UName": "陆军",

"WorkFlowCode": "WBYS",

"JudgmentCondition": "false"}

UID:当前用户ID（工号）

UNAME:当前用户名

RTKey:（取自列表接口返回的WorkFlowKey）)

WorkFlowCode 流程编码（本次外包完工验收申请流程编码为WBYS）

JudgmentCondition：点击发送按钮时需先判断是否有弹出框，根据弹出框那日容选择之后将选项（“true”或“false”赋值此参数，string类型） 当前外包完工验收流程有三个节点需要，1验收申请-->联合验收，2归口专责验收--专业会审3部门验收-运行验收

## **返回值：**{{

    "flag": 1,

    "msg": "success",

    "data": [

        {

            "procSetID": 162,

            "activityID": 5408896,

            "activityName": "部门验收",

            "activityDescr": "部门验收",

"nextActCode": "WBYS00201",

"isJointlySign": 1,

            "hide": **false**,

            "peopleList": [

                {

                    "number": "00000129",

                    "name": "陆军",

                    "pinYin": "LJ",

                    "deptID": 2,

                    "deptName": "综合部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

                {

                    "number": "00000133",

                    "name": "戴立新",

                    "pinYin": "DLX",

                    "deptID": 339,

                    "deptName": "福山光伏综合部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

            ],

            "stationList": [],

            "departmentList": [],

            "peoplePermissionList": [

                {

                    "number": "00000129",

                    "name": "陆军",

                    "pinYin": "LJ",

                    "deptID": 2,

                    "deptName": "综合部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

                {

                    "number": "00001831",

                    "name": "傅志啸",

                    "pinYin": "FZX",

                    "deptID": 339,

                    "deptName": "福山光伏综合部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

                {

                    "number": "00000228",

                    "name": "赵宇人",

                    "pinYin": "ZYR",

                    "deptID": 20,

                    "deptName": "政治工作部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

                {

                    "number": "00000712",

                    "name": "徐新达",

                    "pinYin": "XXD",

                    "deptID": 27,

                    "deptName": "电气检修部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

                {

                    "number": "00000734",

                    "name": "陆雪强",

                    "pinYin": "LXQ",

                    "deptID": 343,

                    "deptName": "检修服务部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

                {

                    "number": "00001133",

                    "name": "汪小军",

                    "pinYin": "WXJ",

                    "deptID": 113,

                    "deptName": "燃料运行部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                },

                {

                    "number": "00001975",

                    "name": "毛亦飞",

                    "pinYin": "MYF",

                    "deptID": 20,

                    "deptName": "政治工作部",

                    "orgID": 10006,

                    "orgName": "常熟发电"

                }

            ],

            "stationPermissionList": [],

            "departmentPermissionList": [],

            "internalControlList": [

                {

                    "cR\_ID": 27318,

                    "cR\_CM\_NAME": "项目基本信息是否准确：包括并不限于所属公司、项目名称、合同编号、进度描述、验收日期等"

                },

                {

                    "cR\_ID": 27319,

                    "cR\_CM\_NAME": "项目过程信息是否准确：包括并不限于项目内容、完成比例、节点工期、施工评价、工期信息等"

                },

                {

                    "cR\_ID": 27320,

                    "cR\_CM\_NAME": "现场验收报告是否齐全、有效"

                },

                {

                    "cR\_ID": 27321,

                    "cR\_CM\_NAME": "工程量复核意见是否经相关部门的确认"

                },

                {

                    "cR\_ID": 27322,

                    "cR\_CM\_NAME": "验收意见是否均已得到有效落实"

                },

                {

                    "cR\_ID": 27323,

                    "cR\_CM\_NAME": "确认承包商是否将验收资料提交完整"

                }

            ],

            "endActivity": **false**

        }

    ]

}

## 返回值说明：

"data": [

        {

            "procSetID": 流程id,

            "activityID": 活动ID,也就是下一个节点ID，发送接口需要（发送接口入参中的NextActivityList中的ActID 和ActivityCandidateList中的ActivityID

）

            "activityName": 活动名称，下一个节点名称，发送接口需要（NextActivityList中的ActName/ActDescr和ActivityCandidateList中的ActivityName）

            "activityDescr": 部门描述，下一节点描述，发送接口需要

            "hide": **false**,不明，发送接口需要

"nextActCode": 下一个节点编码，发送接口需要（ActivityCode）,

isJointlySign：下一节点是否是会签节点，如果是可以选多人，不是则只能选一人

            "peopleList": []人员列表，供发送页面的人员选择列表 展示部门|工号|姓名，（deptName|number|name）选中之后向发送接口传对应的number,此处有校验，1必选2当下一节点不为会签环节时只能选一个人

internalControlList 内控合规列表，cR\_ID为主键cR\_CM\_NAME是内容（展示），展示时每一条内控合规有三个选项（key=value）1=是，2=否，3=不适用，当选择否时，还可以填写意见（可以弹出输入框），然后以list形式传入发送接口

# 发送POST

<http://localhost:44389/API/WFConfig/WFSendNext>

## **参数**：{

"RTKey":"baldr\_1\_162\_2020\_364569\_5408982\_9814\_00001119",

"EmployeeNumber": "00001119",

"EmployeeName": "邱叶新",

"WorkFlowCode": "WBYS",

"JudgmentCondition": "false",

"Suggestion": "asdfajdhfjahsj",

"NextActivityList": [

        {"ActID":5408985,

         "ActName":"部门专责验收",

         "ActDescr":"部门专责验收",

         "Hide":**false**

            }],

"ActivityCandidateList":[{

            "ActivityID": 5408985,

            "ActivityName": "部门专责验收",

            "ActivityCode": "WBYS00201",

            "PeopleList": ["00000337"]

}]，

"internalControlList ":[{

            "cR\_ID": 27318,

            "cR\_CK\_ID": 2,

            "cR\_Opinion": "这是选否时的意见"

}，{

            "cR\_ID": 27318,

            "cR\_CK\_ID": 1,

            "cR\_Opinion": ""

}]

}

EmployeeNumber:当前用户工号

EmployeeName:当前用户名

RTKey:（取自列表接口返回的WorkFlowKey）)

WorkFlowCode 流程编码（本次外包完工验收申请流程编码为WBYS）

JudgmentCondition：点击发送按钮时需先判断是否有弹出框，根据弹出框那日容选择之后将选项（“true”或“false”赋值此参数，string类型） 当前外包完工验收流程有三个节点需要，1验收申请-->联合验收，2归口专责验收--专业会审3部门验收-运行验收

NextActivityList和ActivityCandidateList 中的属性赋值参见发送前接口的返回值说明

internalControlList 内控合规点列表，cR\_ID为内控和规的主键，cR\_CK\_ID为选项，选是时为1，选否时为2，选不适用时为3，选否时cR\_Opinion可以输入意见

## 返回值：

{

    "flag": 1,

    "msg": "发送成功",

    "data": **null**

}

## 说明：当flag值为1时表示成功，-1时表示失败，前端展示msg中内容

# 转发前POST

<http://localhost:8080/API/WFConfig/WFTransmitBefore>

## 参数：{"rtKey":"baldr\_1\_162\_2023\_365569\_5409985\_10715\_00000337",

"uid": "00000337",

"uName": "李仁新",

"workFlowCode": "WBYS",

"judgmentCondition": "false"}

说明：与发送前接口一致

## 返回值

{"flag":1,"msg":"success","data":[{"procSetID":162,"activityID":5409985,"activityName":"部门专责验收","activityDescr":"部门专责验收","nextActCode":"","isJointlySign":1,"hide":false,"peopleList":[{"number":"00001038","name":"黄卫东","pinYin":"HWD","deptID":130,"deptName":"码头甲班","orgID":10006,"orgName":"常熟发电"}],"stationList":[],"departmentList":[],"peoplePermissionList":[{"number":"00001038","name":"黄卫东","pinYin":"HWD","deptID":130,"deptName":"码头甲班","orgID":10006,"orgName":"常熟发电"}],"stationPermissionList":[],"departmentPermissionList":[],"internalControlList":null,"endActivity":false}]}

说明：与发送前接口一致

# 转发POST

<http://localhost:8080/API/WFConfig/WFTransmit>

## 参数：

{

"rtKey":"baldr\_1\_162\_2023\_365569\_5409985\_10715\_00000337",

"EmployeeNumber": "00000337",

"EmployeeName": "李仁新",

"WorkFlowCode": "WBYS",

"JudgmentCondition": "false",

"Suggestion":"联合验收1",

"NextActivityList": [

        {"ActID":5409985,

         "ActName":"部门专责验收",

         "ActDescr":"部门专责验收",

         "Hide":**false**

            }],

"ActivityCandidateList":[{

            "ActivityID": 5409985,

            "ActivityName": "部门专责验收",

            "ActivityCode": "WBYS00201",

            "PeopleList": ["00001038"],

            "StationList":[],

            "DepartmentList":[]

}]

}

说明：与发送接口一致

## 返回值：

{"flag":1,"msg":"转发成功","data":null}

# 回退前POST

<http://localhost:8080/API/WFConfig/WFSendPreviousBefore>

## 参数：

{"RTKey":"baldr\_1\_162\_2023\_365569\_5409985\_10715\_00001038",

"UID": "00001038",

"UName": "黄卫东",

"WorkFlowCode": "WBYS",

"JudgmentCondition": "true"}

## 返回值：

{"flag":1,"msg":"success","data":[{"preActionName":"验收申请","preActionDescr":"验收申请","procSetID":162,"procVerID":162,"callbackUserList":[{"employeeNumber":"00001119","employeeName":"邱叶新","departmentID":0,"departmentName":""}],"status":1}]}

# 回退POST

<http://localhost:8080/API/WFConfig/WFSendPrevious>

## 参数：

{

"RTKey":"baldr\_1\_162\_2023\_365569\_5409985\_10715\_00001038",

"EmployeeNumber": "00001038",

"EmployeeName": "黄卫东",

"WorkFlowCode": "WBYS",

"JudgmentCondition": "true",

"NextActivityList": [

        {"ActID":0,

         "ActName":"验收申请",

         "ActDescr":"验收申请",

         "Hide":**false**

            }],

"ActivityCandidateList":[{

            "ActivityID": 0,

            "ActivityName": "验收申请",

            "ActivityCode": "WBYS00101",

            "PeopleList": ["00001119"],

            "StationList":[],

            "DepartmentList":[]

}]

}

说明：peoplelist中的id从回退前的callbackUserList中取employeenumber

## 返回值：

{"flag":1,"msg":"回退成功","data":null}