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| **Attribute** | **Category** | **Type** | **Value** |
| SubmittedByPI | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | SUBMITTED, NOTSUBMITTED |
| ReadyForSubmissionByPI | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#boolean | true, false |
| DeletedByPI | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | DELETED, NOTDELETED |
| ApprovedByDepartmentChair | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | APPROVED, DISAPPROVED, READYFORAPPROVAL, NOTREADYFORAPPROVAL |
| ApprovedByBusinessManager | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | APPROVED, DISAPPROVED, READYFORAPPROVAL, NOTREADYFORAPPROVAL |
| ApprovedByIRB | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | APPROVED, DISAPPROVED, READYFORAPPROVAL, NOTREADYFORAPPROVAL |
| ApprovedByDean | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | APPROVED, DISAPPROVED, READYFORAPPROVAL, NOTREADYFORAPPROVAL |
| ApprovedByUniversityResearchAdministrator | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | APPROVED, DISAPPROVED, READYFORAPPROVAL, NOTREADYFORAPPROVAL |
| WithdrawnByUniversityResearchAdministrator | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | WITHDRAWN, NOTWITHDRAWN |
| ApprovedByUniversityResearchDirector | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | APPROVED, DISAPPROVED, READYFORAPPROVAL, NOTREADYFORAPPROVAL |
| DeletedByUniversityResearchDirector | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | DELETED, NOTDELETED |
| SubmittedByUniversityResearchAdministrator | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | SUBMITTED, NOTSUBMITTED |
| ArchivedByUniversityResearchDirector | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | ARCHIVED, NOTARCHIVED |

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| **Attributes** | **Category** | **Type** | **Values** |
| position.type | urn:oasis:names:tc:xacml:1.0:subject-category:access-subject | http://www.w3.org/2001/XMLSchema#string | Tenured/tenure-track faculty, Non-tenure-track research faculty, Teaching faculty, Research staff, Professional staff, Administrator |
| position.title | urn:oasis:names:tc:xacml:1.0:subject-category:access-subject | http://www.w3.org/2001/XMLSchema#string | Distinguished Professor, Professor, Associate Professor, Assistant Professor, Research Professor, Associate Research Professor, Assistant Research Professor, Clinical Professor, Clinical Associate Professor, Clinical Assistant Professor, Visiting Professor, Visiting Associate Professor, Visiting Assistant Professor, Lecturer, Senior Lecturer, Adjunct Professor, Research Associate, Research Scientist, Senior Research Scientist, IRB, Business Manager, University Research Administrator, Department Administrative Assistant, Department Chair, Associate Chair, Dean, Associate Dean, Research Administrator, University Research Director |
| proposal.role | urn:oasis:names:tc:xacml:1.0:subject-category:access-subject | http://www.w3.org/2001/XMLSchema#string | PI, Co-PI, Senior Personnel |
| proposal.section | urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | Audit Log, Whole Proposal, Investigator Information, Project Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Sponsor and Budget Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, Certification/Signatures, OSP Section, Appendices |
| proposal.action | urn:oasis:names:tc:xacml:1.0:attribute-category:action | http://www.w3.org/2001/XMLSchema#string | Add, Create, Update, Submit, Approve, Disapprove, Withdraw, Archive, Delete, View, Edit |
| device.type | urn:oasis:names:tc:xacml:1.0:subject-category:environment | http://www.w3.org/2001/XMLSchema#string | Android Device, Windows Device, iOS Device |
| network.type | urn:oasis:names:tc:xacml:1.0:subject-category:environment | http://www.w3.org/2001/XMLSchema#string | Campus, Outside Campus |

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| **Action** | **Access Control Condition(Pre-Condition)** | **Post-Condition** | **Obligations** |
| Add by User  Create by User | position.type= Tenured/tenure-track faculty, Non-tenure-track research faculty | if there are no Co-PIs then  ReadyForSubmissionByPI = true  else  ReadyForSubmissionByPI = false | Send an email to Co-PI and Senior Personnel |
| Submit by PI | SubmittedByPI= NOTSUBMITTED &&  ReadyForSubmissionByPI = true &&  DeletedByPI=NOTDELETED &&  proposal.role= PI | if all PI, Co-PIs have signed then  SubmittedByPI= SUBMITTED &&  ApprovedByDepartmentChair= READYFORAPPROVAL  else  ReadyForSubmissionByPI = false | Send an email to Co-PI, Senior Personnel, Department Chair |
| Submit By University Research Administrator | SubmittedByUniversityResearchAdministrator=NOTSUBMITTED &&  ApprovedByUniversityResearchDirector=APPROVED &&  position.title=University Research Administrator | SubmittedByUniversityResearchAdministrator=SUBMITTED | Send an email to PI, Co-PI, Senior Personnel, University Research Director |
| Update by PI | SubmittedByPI= NOTSUBMITTED &&  proposal.role= PI | If PI, Co-PIs have signed then  ReadyForSubmissionByPI = true  else  ReadyForSubmissionByPI = false |  |
| Sign by Co-PI | SubmittedByPI= NOTSUBMITTED &&  ReadyForSubmissionByPI = false &&  proposal.role= Co-PI | If all sign  ReadyForSubmissionByPI = true |  |
| Delete by PI | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI=NOTDELETED &&  proposal.role= PI | DeleteByPI=DELETED | Send an email to Co-PI, Senior Personnel |
| Approve By Department Chair | ApprovedByDepartmentChair= READYFORAPPROVAL &&  position.title= Department Chair | if all department chairs have signed then  ApprovedByDepartmentChair=  APPROVED &&  ApprovedByBusinessManager= READYFORAPPROVAL && (if IRB required then  ApprovedByIRB= READYFORAPPROVAL) | Send an email to Business Manager and if IRB required then send an email to IRB manager |
| Disapprove by Department Chair | ApprovedByDepartmentChair= READYFORAPPROVAL &&  position.title= Department Chair | ApprovedByDepartmentChair=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If senior>0 and Co-PI>0  ReadyForSubmissionByPI = false  Clear all signature | Send email to PI, Co-PI and Senior Personnel |
| Approve By Business Manager | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager | If all Business Managers have signed, then  ApprovedByBusinessManager=APPROVED &&  ApprovedByDean= READYFORAPPROVAL | Send an email to Dean, PI, Co-PI and Senior Personnel |
| Disapprove By Business Manager | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager | ApprovedByBusinessManager=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED &&  ApprovedByIRB=NOTREADYFORAPPROVAL  If senior>0 and Co-PI>0  ReadyForSubmissionByPI = false  Clear all signature | Send an email to PI, Co-PI, Senior Personnel and Department Chair |
| Approve By IRB | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB | If all IRBs have signed, then  ApprovedByIRB= APPROVED (  if ApprovedByDean= APROVED && ApprovedByBusinessManager=APPROVED then  ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL) | Send an email to PI, Co-PI, Senior Personnel and Dean |
| Disapprove By IRB | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB | ApprovedByIRB= DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If senior>0 and Co-PI>0  ReadyForSubmissionByPI = false  Clear all signature | Send an email to PI, Co-PI, Senior Personnel and Department Chair |
| Approve By Dean | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean | If all Deans have signed, then  ApprovedByDean=APPROVED &&  If (IRB is not required) then  ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL  Else (  If  ApprovedByIRB= APPROVED then  ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL) | Send an email to PI, Co-PI, Senior Personnel and University Research Administrator |
| Disapprove by Dean | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean | ApprovedByDean=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If senior>0 and Co-PI>0  ReadyForSubmissionByPI = false  Clear all signature | Send an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager and if IRB required then send an email to IRB manager |
| Approve By University Research Administrator | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title= University Research Administrator | if all University Research Administrators have signed, then  ApprovedByUniversityResearchAdministrator=  APPROVED &&  ApprovedByUniversityResearchDirector=READYFORAPPROVAL | Send an email to PI, Co-PI, Senior Personnel, University Research Director |
| Disapprove By Research Administrator | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title=University Research Administrator | ApprovedByUniversityResearchAdministrator=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If senior>0 and Co-PI>0  ReadyForSubmissionByPI = false  Clear all signature | Send an email to PI, Co-PI, Senior Personnel, Business Manager, Dean and if IRB required then send an email to IRB manager |
| Withdraw By University Research Administrator | WithdrawnByUniversityResearchAdministrator= NOTWITHDRAWN && ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title= University Research Administrator | WithdrawnByUniversityResearchAdministrator= WITHDRAWN | Send an email to PI, Co-PI, Senior Personnel Department Chair, Business Manager, Dean and if IRB required then send an email to IRB manager |
| Approve by University Research Director | ApproveByUniversityResearchDirector=READYFORAPPROVAL &&  position.title=University Research Director | If all University Research Directors have signed, then  ApprovedByUniversityResearchDirector=APPROVED | Send an email to PI, Co-PI, Senior Personnel |
| Disapprove by University Research Director | ApproveByUniversityResearchDirector=  READYFORAPPROVAL &&  position.title=University Research Director | ApprovedByUniversityResearchDirector=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If senior>0 and Co-PI>0  ReadyForSubmissionByPI = false  Clear all signature | Send an email to PI, Co-PI, Senior Personnel, Business Manager, Dean, University Research Administrator and if IRB required then send an email to IRB manager |
| Delete by University Research Director | DeletedByUniversityResearchDirector=NOTDELETED && ApprovedByUniversityResearchDirector=READYFORAPPROVAL &&  position.title= University Research Director | DeletedByUniversityResearchDirector=  DELETED | Send an email to PI, Co-PI, Senior Personnel, Business Manager, Dean, University Research Administrator  and if IRB required then send an email to IRB manager |
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| Archive By University Research Director | ArchivedByUniversityResearchDirector= NOTARCHIVED && SubmittedByUniversityResearchAdministrator=SUBMITTED &&  position.title=University Research Director | ArchivedByUniversityResearchDirector= ARCHIVED | Send an email to PI, Co-PI and Senior Personnel |

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| **Action** | **Access Control Condition(Pre-Condition)** | **Post Condition** | **Obligations** |
| View by PI | Proposal.section: Whole Proposal &&  proposal.role: PI &&  network-type:Campus |  |  |
| View by Co-PI | Proposal.section: Whole Proposal &&  proposal.role: Co-PI |  |  |
| View by Senior Personnel | Proposal.section: Whole Proposal &&  proposal.role: Senior Personnel |  |  |
| View by Department Chair | Proposal.section: Whole Proposal &&  position.title: Department Chair |  |  |
| View by Business Manager | Proposal.section: Whole Proposal &&  position.title: Business Manager |  |  |
| View by IRB | Proposal.section: Whole Proposal &&  position.title: IRB |  |  |
| View by Dean | Proposal.section: Whole Proposal &&  position.title: Dean |  |  |
| View by University Research Administrator | Proposal.section: Whole Proposal &&  position.title: University Research Administrator |  |  |
| View by University Research Director | Proposal.section: Whole Proposal &&  position.title: University Research Director |  |  |

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| **Action** | **Access Control Condition(Pre-Condition)** | **Post Condition** | **Obligations** |
| Edit by PI | SubmittedByPI= NOTSUBMITTED &&  ReadyForSubmissionByPI = false &&  Proposal.section:  Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Project Information, Sponsor and Budget Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, Appendices |  |  |
| Not Edit by PI | SubmittedByPI= NOTSUBMITTED &&  ReadyForSubmissionByPI = false &&  Proposal.section:  OSP section, Audit Log |  |  |
| Edit by Co-PI | (SubmittedByPI= NOTSUBMITTED &&  ReadyForSubmissionByPI = false  &&  Proposal.section: InvestigatorInformation.Senior-Personnel)  or  (SubmittedByPI= NOTSUBMITTED &&  ReadyForSubmissionByPI = false  &&  Proposal.section: Appendices) |  | Send an email to PI |
| Not edit by Co-PI | (SubmittedByPI= NOTSUBMITTED &&  ReadyForSubmissionByPI = false  &&  Audit Log, Whole Proposal, Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, Project Information, Sponsor and Budget Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, OSP Section |  |  |
| Not edit by Department Chair | ApprovedByDepartmentChair= READYFORAPPROVAL &&  Proposal.section:  Audit Log, Whole Proposal, Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Project Information, Sponsor and Budget Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, OSP Section, Appendices |  |  |
| Edit by Business manager | (ApprovedByBusinessManager= READYFORAPPROVAL  &&  Proposal.section: Sponsor and Budget Information) |  | Send an email to PI, Co-PI and Senior Personnel, Department Chair |
| Not edit by Business Manager | (ApprovedByBusinessManager= READYFORAPPROVAL  &&  Proposal.section:  Audit Log, Whole Proposal, Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Project Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, OSP Section, Appendices |  |  |
| Not Edit by IRB | ApprovedByIRB= READYFORAPPROVAL  &&  Proposal.section:  Audit Log, Whole Proposal, Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Project Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, OSP Section, Appendices |  | Send an email to PI, Co-PI and Senior Personnel, Department Chair |
| Not Edit by Dean | ApprovedByDean= READYFORAPPROVAL  &&  Proposal.section:  Audit Log, Whole Proposal, Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Project Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, OSP Section, Appendices |  | Send an email to PI, Co-PI and Senior Personnel, Department Chair, Business Manager and if IRB required then send an email to IRB manager |
| Edit by University Research Administrator | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  Proposal.section:  Whole Proposal, Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Project Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information, OSP Section |  | Send an email to PI, Co-PI and Senior Personnel, Department Chair, Business Manager ,Dean and if IRB required then send an email to IRB manager |
| Not Edit by University Research Administrator | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  Proposal.section:  Appendices |  |  |
| Edit by University Research Director | (ApproveByUniversityResearchDirector=READYFORAPPROVAL &&  Proposal.section:  OSP Section) |  | Send an email to PI, Co-PI and Senior Personnel, Department Chair, Business Manager , Dean, University Research Administrator and if IRB required then send an email to IRB manager |
| Not Edit by University Research Director | ApproveByUniversityResearchDirector=READYFORAPPROVAL &&  Proposal.section:  Audit Log, Whole Proposal, Investigator Information, InvestigatorInformation.PI, InvestigatorInformation.Co-PI, InvestigatorInformation.Senior-Personnel, Project Information, Sponsor and Budget Information, Cost Share Information, University Commitments, Conflict of Interest and Commitment Information, Compliance Information, Additional Information, Collaboration Information, Proprietary/Confidential Information,Appendices |  |  |