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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# string | 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| urn:oasis:names:tc:xacml:1.0:attribute-category:resource | http://www.w3.org/2001/XMLSchema#string | WITHDRAWN, NOTWITHDRAWN |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 |
| 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 | 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, Certification/Signatures, OSP Section, Appendices, Audit Log |
| proposal.action | urn:oasis:names:tc:xacml:1.0:attribute-category:action | http://www.w3.org/2001/XMLSchema#string | Add, Add Co-PI, Add Senior Personnel, Save, 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: Add** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 1. AddProposalByFaculty-Rule1 | Add A New Proposal by Tenured/tenure-track faculty (Permit) | position.type = Tenured/tenure-track faculty  proposal.section = Whole Proposal  proposal.action = Add |  |  |  |
|  | Add A New Proposal by Non-tenure-track research faculty  (Permit) | position.type = Non-tenure-track research faculty  proposal.section = Whole Proposal  proposal.action = Add |  |  |  |
| 2. CannotAddProposalByOtherStaff-Rule2 | Cannot Add A New Proposal by Other Staff unless delegated by faculty  (Deny) | position.type = <Teaching faculty || Research staff || Professional staff || Administrator>  proposal.section = Whole Proposal  proposal.action = Add |  |  |  |

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| **Action: Add Co-PI** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 3. AddCo-PIByPI-Rule3 | Co-PI can be Added by PI  (Permit) | SubmittedByPI = NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  proposal.section = InvestigatorInformation.Co-PI &&  proposal.action = Add Co-PI |  |  |  |
| 4. CannotAddCo-PIByCoPI-Rule4 | Co-PI cannot be Added by Co-PI  (Deny) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.section = InvestigatorInformation.Co-PI &&  proposal.action = Add Co-PI |  |  |  |

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| **Action: Add Senior Personnel** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 5. AddSeniorPersonnelByPI-Rule5 | Senior Personnel can be Added by PI  (Permit) | SubmittedByPI = NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  proposal.section =InvestigatorInformation.Senior-Personnel &&  proposal.action = Add Senior Personnel |  |  |  |
| 6. AddSeniorPersonnelByCoPI-Rule6 | Senior Personnel can be Added by Co-PI  (Permit) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.section = InvestigatorInformation.Senior-Personnel && proposal.action = Add Senior Personnel |  |  |  |

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| **Action: Save** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 7. SaveProposalByFaculty-Rule7 | Save a New Proposal by Tenured/tenure-track faculty (Permit) | position.type = Tenured/tenure-track faculty  proposal.section = Whole Proposal  proposal.action = Save |  |  | System sends an email to PI, Co-PI, Senior Personnel |
|  | Save a New Proposal by Non-tenure-track research faculty  (Permit) | position.type = Non-tenure-track research faculty  proposal.section = Whole Proposal  proposal.action = Save |  |  | System sends an email to PI, Co-PI, Senior Personnel |
| 8. SaveProposalByPI-Rule8 | Update an Existing Proposal by PI  (Permit) | SubmittedByPI = NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  proposal.role = PI &&  proposal.section = Whole Proposal  proposal.action = Save | If PI, Co-PIs have signed then  ReadyForSubmissionByPI = True  else  ReadyForSubmissionByPI = False |  | System sends an email to PI, Co-PI, Senior Personnel |
| 9. SaveProposalByCo-PI-Rule9 | Update Existing Proposal by Co-PI  (Permit) | SubmittedByPI = NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.role = Co-PI  &&  proposal.section = Whole Proposal &&  proposal.action = Save | If PI, Co-PIs have signed then  ReadyForSubmissionByPI = True  else  ReadyForSubmissionByPI = False |  | System sends an email to PI, Co-PI, Senior Personnel |

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| **Action: Submit** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 10. SubmitProposalByPI-Rule10a | Submit Proposal by PI  (Permit) | SubmittedByPI = NOTSUBMITTED  &&  DeletedByPI =NOTDELETED &&  ReadyForSubmissionByPI = True &&  proposal.role = PI &&  proposal.action = Submit  Condition:  signedByAllCoPIs=true | if all PI, Co-PIs have signed then  SubmittedByPI= SUBMITTED &&  ApprovedByDepartmentChair= READYFORAPPROVAL  else  ReadyForSubmissionByPI = False | PI signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair  if signedByAllCoPIs= true |
| 10. NotSubmitProposalByPI-Rule10b | Not Submit Proposal by PI  (Deny) | SubmittedByPI = NOTSUBMITTED  &&  DeletedByPI =NOTDELETED &&  ReadyForSubmissionByPI = True &&  proposal.role = PI &&  proposal.action = Submit  Condition:  signedByAllCoPIs=false |  |  |  |
| 11. NotSubmitProposalByCoPI-Rule11 | Not Submit Proposal by Co-PI  (Deny) | SubmittedByPI = NOTSUBMITTED  &&  DeletedByPI =NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.role =Co-PI &&  proposal.action = Submit |  |  |  |
| 12a. SubmitProposalByUniversityResearchAdministrator-Rule12a | Submit By University Research Administrator  (Permit) | SubmittedByUniversityResearchAdministrator=NOTSUBMITTED &&  ApprovedByUniversityResearchDirector=APPROVED &&  position.title=University Research Administrator &&  proposal.action = Submit  Condition:  irbApprovalRequired=false | SubmittedByUniversityResearchAdministrator=SUBMITTED | University Research Administrator signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business manager, Dean, University Research Administrator |
| 12b. SubmitProposalByUniversityResearchAdministrator-Rule12b | Submit By University Research Administrator  (Permit) | SubmittedByUniversityResearchAdministrator=NOTSUBMITTED &&  ApprovedByUniversityResearchDirector=APPROVED &&  position.title=University Research Administrator &&  proposal.action = Submit  Condition:  irbApprovalRequired=true | SubmittedByUniversityResearchAdministrator=SUBMITTED | University Research Administrator signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business manager, Dean, University Research Director and IRB |

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| **Action: Approve** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 13a. ApproveProposalByDepartmentChair-Rule13a | Approve By Department Chair  (Permit) | ApprovedByDepartmentChair= READYFORAPPROVAL &&  position.title= Department Chair  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllChairs = false | all department chairs have not signed | Department Chair signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair |
| 13b. ApproveProposalByDepartmentChair-Rule13b | Approve By Department Chair  (Permit) | ApprovedByDepartmentChair= READYFORAPPROVAL &&  position.title= Department Chair  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllChairs = true &&  irbApprovalRequired = false | if all department chairs have signed then  ApprovedByDepartmentChair=APPROVED &&  ApprovedByBusinessManager= READYFORAPPROVAL | Department Chair signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Business Manager |
| 13c. ApproveProposalByDepartmentChair-Rule13c | Approve By Department Chair  (Permit) | ApprovedByDepartmentChair= READYFORAPPROVAL &&  position.title= Department Chair  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllChairs = ture &&  irbApprovalRequired = true | if all department chairs have signed then  ApprovedByDepartmentChair=APPROVED &&  ApprovedByBusinessManager= READYFORAPPROVAL && (if IRB required then  ApprovedByIRB= READYFORAPPROVAL) | Department Chair signs the proposal | System sends an email to PI, Co-PI, Senior Personnel,  IRB and Business Manager |
| 14a. ApproveProposalByBusinessManager-Rule14a | Approve By Business Manager  (Permit) | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllBusinessManagers = false | All Business Managers have not signed. | Business Manager signs the proposal | System sends an email to PI, Co-PI and Senior Personnel, Business manager |
| 14b. ApproveProposalByBusinessManager-Rule14b | Approve By Business Manager  (Permit) | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllBusinessManagers = ture &&  irbApprovalRequired = false | If all Business Managers have signed, then  ApprovedByBusinessManager=APPROVED &&  ApprovedByDean= READYFORAPPROVAL | Business Manager signs the proposal | System sends an email to PI, Co-PI and Senior Personnel, Dean |
| 14c. ApproveProposalByBusinessManager-Rule14c | Approve By Business Manager  (Permit) | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllBusinessManagers = true &&  irbApprovalRequired = true &&  approvedbyirb  =READYFORAPPROVAL | If all Business Managers have signed, then  ApprovedByBusinessManager=APPROVED &&  ApprovedByDean= READYFORAPPROVAL (if IRB required then  ApprovedByIRB= READYFORAPPROVAL) | Business Manager signs the proposal | System sends an email to PI, Co-PI and Senior Personnel, Dean and IRB |
| 14d. ApproveProposalByBusinessManager-Rule14d | Approve By Business Manager  (Permit) | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllBusinessManagers = true &&  irbApprovalRequired = true &&  approvedbyirb  =APPROVED | If all Business Managers have signed, then  ApprovedByBusinessManager=APPROVED &&  ApprovedByDean= READYFORAPPROVAL (if IRB required then  ApprovedByIRB= APPROVED) | Business Manager signs the proposal | System sends an email to PI, Co-PI and Senior Personnel, Dean |
| 15a. ApproveProposalByDean-Rule15a | Approve By Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllDeans = false | All Deans have not signed | Dean signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Dean |
| 15b. ApproveProposalByDean-Rule15b | Approve By Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllDeans = true &&  irbApprovalRequired = false | If all Deans have signed, then  ApprovedByDean=APPROVED &&  ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL | Dean signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, University Research Administrator |
| 15c. ApproveProposalByDean-Rule15c | Approve By Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllDeans = true &&  irbApprovalRequired = true &&  approvedbyirb  =READYFORAPPROVAL | If all Deans have signed, then  ApprovedByDean=APPROVED &&  If  ApprovedByIRB= READYFORAPPROVAL then  ApprovedByIRB = APPROVED) | Dean signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, IRB |
| 15d. ApproveProposalByDean-Rule15d | Approve By Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllDeans = true &&  irbApprovalRequired = true &&  approvedbyirb  =APPROVED | If all Deans have signed, then  ApprovedByDean=APPROVED &&  If  ApprovedByIRB= APPROVED then  ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL) | Dean signs the proposal | System sends an email to PI, Co-PI, Senior Personnel and University Research Administrator |
| 16a. ApproveProposalByIRB-Rule16a | Approve By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllIRBs= false &&  irbApprovalRequired = true | All IRBs have not signed | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel and IRB |
| 16b. ApproveProposalByIRB-Rule16b | Approve By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllIRBs= true &&  irbApprovalRequired = true &&  approvedbydean= APPROVED | If all IRBs have signed, then  ApprovedByIRB= APPROVED (  if ApprovedByDean= APROVED then  ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL) | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel and University Research Administrator |
| 16c. ApproveProposalByIRB-Rule16c | Approve By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllIRBs= true &&  irbApprovalRequired = true &&  approvedbybusinessmanager = APPROVED | If all IRBs have signed, then  ApprovedByIRB= APPROVED (  if approvedbybusinessmanager = APROVED then  ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL) | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel and University Research Administrator |
| 16d. ApproveProposalByIRB-Rule16d | Approve By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllIRBs= true &&  irbApprovalRequired = true &&  approvedbybusinessmanager= READYFORAPPROVAL | If all IRBs have signed, then  ApprovedByIRB= APPROVED (  if ApprovedByBusinessManager=READYFORAPPROVAL then  ApprovedByBusinessManager = APPROVED) | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Business Manager |
| 16e. ApproveProposalByIRB-Rule16e | Approve By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllIRBs= true &&  irbApprovalRequired = true &&  approvedbydean= READYFORAPPROVAL | If all IRBs have signed, then  ApprovedByIRB= APPROVED (  if ApprovedByDean= READYFORAPPROVAL then  ApprovedByDean = APPROVED) | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel and Dean |
| 17a1. ApproveProposalByUniversityResearchAdministrator-Rule17a1 | Approve By University Research Administrator  (Permit) | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title= University Research Administrator  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllResearchAdmins = false | All University Research Administrators have not signed | University Research Administrator signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, University Research Administrator |
| 17a2. ApproveProposalByUniversityResearchAdministrator-Rule17a2 | Approve By University Research Administrator  (Permit) | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title= University Research Administrator  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllResearchAdmins = true | if all University Research Administrators have signed, then  ApprovedByUniversityResearchAdministrator=  APPROVED &&  ApprovedByUniversityResearchDirector=READYFORAPPROVAL | University Research Administrator signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, University Research Director |
| 18a1. ApproveProposalByUniversityResearchDirector-Rule18a1 | Approve by University Research Director  (Permit) | ApprovedByUniversityResearchDirector=READYFORAPPROVAL &&  position.title=University Research Director  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllResearchDirectors = false | All University Research Directors have not signed | University Research Director signs the proposal | System sends an email to PI, Co-PI, Senior Personnel and University Research Director |
| 18a2. ApproveProposalByUniversityResearchDirector-Rule18a2 | Approve by University Research Director  (Permit) | ApprovedByUniversityResearchDirector=READYFORAPPROVAL &&  position.title=University Research Director  proposal.section=Whole Proposal  proposal.action = Approve  Condition:  signedByAllResearchDirectors = true | If all University Research Directors have signed, then  ApprovedByUniversityResearchDirector=APPROVED | University Research Director signs the proposal | System sends an email to PI, Co-PI, Senior Personnel and University Research Administrator |

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| **Action: Disapprove** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 19. DisapproveProposalByDepartmentChair-Rule19 | Disapprove by Department Chair  (Permit) | ApprovedByDepartmentChair= READYFORAPPROVAL &&  position.title= Department Chair  proposal.section=Whole Proposal  proposal.action = Disapprove | ApprovedByDepartmentChair=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | Department Chair signs the proposal | System sends email to PI, Co-PI and Senior Personnel, Department Chair |
| 20a1. DisapproveProposalByBusinessManager-Rule20a1 | Disapprove By Business Manager  (Permit) | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= false | ApprovedByBusinessManager=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED &&  ApprovedByIRB=NOTREADYFORAPPROVAL  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | Business Manager signs the proposal | System sends email to PI, Co-PI and Senior Personnel, Department Chair and Business Manager |
| 20a2. DisapproveProposalByBusinessManager-Rule20a2 | Disapprove By Business Manager  (Permit) | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true && approvedbyirb = APPROVED | ApprovedByBusinessManager=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED &&  ApprovedByIRB=NOTREADYFORAPPROVAL  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | Business Manager signs the proposal | System sends email to PI, Co-PI and Senior Personnel, Department Chair Business Manager, IRB |
| 20a3. DisapproveProposalByBusinessManager-Rule20a2 | Disapprove By Business Manager  (Permit) | ApprovedByBusinessManager= READYFORAPPROVAL &&  position.title= Business Manager  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true && approvedbyirb = READYFORAPPROVAL | ApprovedByBusinessManager=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED &&  ApprovedByIRB=NOTREADYFORAPPROVAL  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | Business Manager signs the proposal | System sends email to PI, Co-PI and Senior Personnel, Department Chair Business Manager, IRB |
| 21a1. DisapproveProposalByDean-Rule21a | Disapprove by Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired=false | ApprovedByDean=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | Dean signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager and Dean |
| 21a2. DisapproveProposalByDean-Rule21a2 | Disapprove by Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true && approvedbyirb = APPROVED | ApprovedByDean=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | Dean signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, IRB and Dean |
| 21a3. DisapproveProposalByDean-Rule21a3 | Disapprove by Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  position.title= Dean  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true && approvedbyirb = READYFORAPPROVAL | ApprovedByDean=DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | Dean signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, IRB and Dean |
| 22a. DisapproveProposalByIRB-Rule22a | Disapprove By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true | ApprovedByIRB= DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel , Department Chair and IRB |
| 22b. DisapproveProposalByIRB-Rule22b | Disapprove By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true &&  approvedbybusinessmanager=  APPROVED | ApprovedByIRB= DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel , Department Chair, IRB and Business Manager |
| 22c. DisapproveProposalByIRB-Rule22c | Disapprove By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true &&  approvedbybusinessmanager=  READYFORAPPROVAL | ApprovedByIRB= DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel , Department Chair, IRB and Business Manager |
| 22d. DisapproveProposalByIRB-Rule22d | Disapprove By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true &&  ApprovedByDean = APPROVED | ApprovedByIRB= DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel , Department Chair, Business Manager, Dean and IRB |
| 22e. DisapproveProposalByIRB-Rule22e | Disapprove By IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL  position.title=IRB  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true &&  ApprovedByDean = READYFORAPPROVAL | ApprovedByIRB= DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | IRB signs the proposal | System sends an email to PI, Co-PI, Senior Personnel , Department Chair, Business Manager, Dean and IRB |
| 23a1. DisapproveProposalByUniversityResearchAdministrator-Rule23a1 | Disapprove By University Research Administrator  (Permit) | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title=University Research Administrator  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= false | ApprovedByUniversityResearchAdministrator=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | University Research Administrator signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, Dean, University Research Administrator |
| 23a2. DisapproveProposalByUniversityResearchAdministrator-Rule23a2 | Disapprove By University Research Administrator  (Permit) | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title=University Research Administrator  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true | ApprovedByUniversityResearchAdministrator=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | University Research Administrator signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, Dean, University Research Administrator and IRB |
| 24a1.DisapproveProposalByUniversityResearchDirector-Rule24a1 | Disapprove by University Research Director  (Permit) | ApprovedByUniversityResearchDirector=  READYFORAPPROVAL &&  position.title=University Research Director  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= false | ApprovedByUniversityResearchDirector=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False    Clear all signature | University Research Director signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, Dean, University Research Administrator ,  University Research Director |
| 24a2.DisapproveProposalByUniversityResearchDirector-Rule24a2 | Disapprove by University Research Director  (Permit) | ApprovedByUniversityResearchDirector=  READYFORAPPROVAL &&  position.title=University Research Director  proposal.section=Whole Proposal  proposal.action = Disapprove  Condition:  irbApprovalRequired= true | ApprovedByUniversityResearchDirector=  DISAPPROVED &&  SubmittedByPI= NOTSUBMITTED  If Co-PI>0  ReadyForSubmissionByPI = False  Clear all signature | University Research Director signs the proposal | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, Dean, University Research Administrator ,  University Research Director and IRB |

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| **Action: Withdraw** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 25a1.WithdrawProposalByUniversityResearchAdministrator-Rule25a1 | Withdraw By University Research Administrator  (Permit) | WithdrawnByUniversityResearchAdministrator= NOTWITHDRAWN && ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title= University Research Administrator  proposal.section=Whole Proposal  proposal.action = Withdraw  Condition:  irbApprovalRequired= false | WithdrawnByUniversityResearchAdministrator= WITHDRAWN && ApprovedByUniversityResearchAdministrator= NOTREADYFORAPPROVAL |  | System sends an email to PI, Co-PI, Senior Personnel Department Chair, Business Manager, Dean, University Research Administrator, University Research Director |
| 25a2.WithdrawProposalByUniversityResearchAdministrator-Rule25a2 | Withdraw By University Research Administrator  (Permit) | WithdrawnByUniversityResearchAdministrator= NOTWITHDRAWN && ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  position.title= University Research Administrator  proposal.section=Whole Proposal  proposal.action = Withdraw  Condition:  irbApprovalRequired= true | WithdrawnByUniversityResearchAdministrator= WITHDRAWN && ApprovedByUniversityResearchAdministrator= NOTREADYFORAPPROVAL |  | System sends an email to PI, Co-PI, Senior Personnel Department Chair, Business Manager, Dean, University Research Administrator, University Research Director and IRB |

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| **Action: Archive** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 26a1.ArchiveProposalByUniversityResearchDirector-Rule26a1 | Archive By University Research Director  (Permit) | ArchivedByUniversityResearchDirector= NOTARCHIVED && SubmittedByUniversityResearchAdministrator=SUBMITTED &&  position.title=University Research Director  proposal.section=Whole Proposal  proposal.action = Archive  Condition:  irbApprovalRequired= false | ArchivedByUniversityResearchDirector= ARCHIVED && ApprovedByUniversityResearchDirector = NOTREADYFORAPPROVAL |  | System sends an email to PI, Co-PI, Senior Personnel Department Chair, Business Manager, Dean, University Research Administrator and University Director |
| 26a2.ArchiveProposalByUniversityResearchDirector-Rule26a2 | Archive By University Research Director  (Permit) | ArchivedByUniversityResearchDirector= NOTARCHIVED && SubmittedByUniversityResearchAdministrator=SUBMITTED &&  position.title=University Research Director  proposal.section=Whole Proposal  proposal.action = Archive | ArchivedByUniversityResearchDirector= ARCHIVED && ApprovedByUniversityResearchDirector = NOTREADYFORAPPROVAL |  | System sends an email to PI, Co-PI, Senior Personnel Department Chair, Business Manager, Dean, University Research Administrator University Research Director and IRB |

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| **Action: Delete** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 27. DeleteCo-PIandSeniorPersonnelByPI-Rule27 | Co-PI can be deleted by PI  (Permit) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  proposal.section = InvestigatorInformation.Co-PI  && proposal.action = Delete |  |  |  |
|  | Senior Personnel can be Deleted by PI  (Permit) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  proposal.section = InvestigatorInformation.Senior-Personnel  && proposal.action = Delete |  |  |  |
| 28. DeleteSeniorPersonnelByCoPI-Rule28 | Senior Personnel can be Deleted by Co-PI  (Permit) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.section = InvestigatorInformation.Senior-Personnel && proposal.action = Delete |  |  |  |
| 29. CannotDeleteCoPIByCoPI-Rule29 | Co-PI cannot be Deleted by Co-PI  (Deny) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.section = InvestigatorInformation.Co-PI &&  proposal.action = Delete |  |  |  |
| 30. DeleteProposalByPI-Rule30 | Delete Proposal by PI  (Permit) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI=NOTDELETED &&  proposal.role= PI  proposal.section=Whole Proposal  proposal.action = Delete |  |  | System sends email to PI, Co-PI, Senior Personnel |
| 31.CannotDeleteProposalByCo-PI-Rule31 | Not delete Proposal by Co-PI  (Deny) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI=NOTDELETED &&  proposal.role= Co-PI  proposal.section=Whole Proposal  proposal.action = Delete |  |  |  |
| 32a1.DeleteProposalByUniversityResearchDirector-Rule32a1 | Delete by University Research Director  (Permit) | DeletedByUniversityResearchDirector=NOTDELETED && ApprovedByUniversityResearchDirector=READYFORAPPROVAL &&  position.title= University Research Director  proposal.section=Whole Proposal  proposal.action = Delete  Condition:  irbApprovalRequired= false | DeletedByUniversityResearchDirector=  DELETED && ApprovedByUniversityResearchDirector = NOTREADYFORAPPROVAL |  | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, Dean, University Research Administrator, University Research Director |
| 32a2.DeleteProposalByUniversityResearchDirector-Rule32a2 | Delete by University Research Director  (Permit) | DeletedByUniversityResearchDirector=NOTDELETED && ApprovedByUniversityResearchDirector=READYFORAPPROVAL &&  position.title= University Research Director  proposal.section=Whole Proposal  proposal.action = Delete  Condition:  irbApprovalRequired= true | DeletedByUniversityResearchDirector=  DELETED && ApprovedByUniversityResearchDirector = NOTREADYFORAPPROVAL |  | System sends an email to PI, Co-PI, Senior Personnel, Department Chair, Business Manager, Dean, University Research Administrator, University Research Director and IRB |

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| **Action: View** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 33. ViewAuditLogByPI-Rule33 | Audit Log View by PI  (Permit) | proposal.section = Audit Log &&  proposal.role = PI &&  proposal.action = View |  |  |  |
| 34. CannotViewAuditLogByOtherUser-Rule34 | AuditLog not view by  Co-PI, Senior Personnel, Department Chair, Business Manager, Dean, IRB ,University Research Administrator, University Research Director  (Deny) | proposal.section = Audit Log &&  proposal.role =Co-PI|| Senior Personnel||  position.title = Department Chair|| Business Manager|| Dean|| IRB ||University Research Administrator|| University Research Director  proposal.action = View |  |  |  |

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| **Action: Edit** | | | | | |
| **S. No.** | **Action** | **Access Control Condition (Pre-Condition)** | **Post-Condition** | **Pre Obligation** | **Post Obligations** |
| 35. EditProposalSectionByPI-Rule35a | Proposal Section Edit by PI  (Permit) | SubmittedByPI = NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  proposal.section =  <Whole Proposal || Investigator Information || 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 || Certification/Signatures || Appendices> &&  proposal.role = PI &&  proposal.action = Edit |  |  |  |
| 36. CannotEditOSPSectionByPI-Rule36 | PI Cannot Edit OSP section  (Deny) | SubmittedByPI = NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  proposal.section = OSP section  proposal.role = PI &&  proposal.action = Edit |  |  |  |
| 37. EditProposalSectionByCoPI-Rule37 | Proposal Section Edit by Co-PI  (Permit) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.section = <Investigator Information || Certification/Signatures || Appendices > &&  proposal.action = Edit |  |  |  |
| 38. CannotEditSomeProposalSectionByCoPI-Rule38 | Co-PI cannot Edit 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  (Deny) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.section = <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> &&  proposal.action = Edit |  |  |  |
| 39. CannotEditProposalSectionBySeniorPersonnel-Rule39 | Proposal section not Edit by Senior Personnel  (Deny) | SubmittedByPI= NOTSUBMITTED &&  DeletedByPI = NOTDELETED &&  ReadyForSubmissionByPI = False &&  proposal.section = <Investigator Information || 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 || Certification/Signatures || OSP Section || Appendices> &&  Proposal.role = Senior Personnel &&  proposal.action = Edit |  |  |  |
| 40. EditProposalSectionByDepartmentChair-Rule40 | Certification/Signatures edit by Department Chair  (Permit) | ApprovedByDepartmentChair= READYFORAPPROVAL &&  proposal.section=  Certification/Signatures  position.title = Department Chair &&  proposal.action = Edit |  |  |  |
| 41. CannotEditProposalSectionByDepartmentChair-Rule41 | Proposal Section not edit by Department Chair  (Deny) | ApprovedByDepartmentChair= READYFORAPPROVAL &&  proposal.section=  <Investigator Information|| 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>  position.title = Department Chair &&  proposal.action = Edit |  |  |  |
| 42. EditProposalSectionByBusinessManager-Rule42 | Edit by Business manager  (Permit) | (ApprovedByBusinessManager= READYFORAPPROVAL  &&  proposal.section= <Sponsor and Budget Information|| Certification/Signatures>  position.title = Business Manager &&  proposal.action = Edit |  |  |  |
| 43. CannotEditProposalSectionByBusinessManager-Rule43 | Not edit by Business Manager  (Deny) | (ApprovedByBusinessManager= READYFORAPPROVAL  &&  proposal.section=  <Investigator Information, 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>  position.title = Business Manager &&  proposal.action = Edit |  |  |  |
| 44. EditProposalSectionByDean-Rule44 | Certification/Signatures edit by Dean  (Permit) | ApprovedByDean= READYFORAPPROVAL &&  proposal.section=  Certification/Signatures  position.title = Dean &&  proposal.action = Edit |  |  |  |
| 45. CannotEditProposalSectionByDean-Rule45 | Proposal Section not edit by Dean  (Deny) | ApprovedByDean = READYFORAPPROVAL &&  proposal.section=  <Investigator Information|| 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>  position.title = Dean &&  proposal.action = Edit |  |  |  |
| 46. EditProposalSectionByIRB-Rule46 | Certification/Signatures edit by IRB  (Permit) | ApprovedByIRB= READYFORAPPROVAL &&  proposal.section=  Certification/Signatures  position.title = IRB &&  proposal.action = Edit |  |  |  |
| 47. CannotEditProposalSectionByIRB-Rule47 | Proposal Section not edit by IRB  (Deny) | ApprovedByIRB= READYFORAPPROVAL &&  proposal.section=  <Investigator Information|| 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>  position.title = IRB &&  proposal.action = Edit |  |  |  |
| 48. EditProposalSectionByUniversityResearchAdministrator-Rule48 | Proposal Section edit by  University Research Administrator  (Permit) | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  Proposal.section =  <Investigator Information||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||Certification/Signatures>  position.title = University Research Administrator &&  proposal.action = Edit |  |  |  |
| 49. CannotEditProposalSectionByUniversityResearchAdministrator-Rule49 | Appendices not edit by University Research Administrator  (Deny) | ApprovedByUniversityResearchAdministrator= READYFORAPPROVAL &&  Proposal.section =  Appendices  position.title = University Research Administrator &&  proposal.action = Edit |  |  |  |
| 50. EditProposalSectionByUniversityResearchDirector-Rule50 | Proposal Section edit by University Research Director  (Permit) | ApprovedByUniversityResearchDirector=READYFORAPPROVAL &&  Proposal.section =  Certification/Signatures || OSP Section  position.title = University Research Director &&  proposal.action = Edit |  |  |  |
| 51. CannotEditProposalSectionByUniversityResearchDirector-Rule51 | Proposal Section not edit by University Research Director  (Deny) | ApprovedByUniversityResearchDirector=READYFORAPPROVAL &&  Proposal.section =  <Investigator Information|| 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>  position.title = University Research Director &&  proposal.action = Edit |  |  |  |





