

```

</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="FilmScale" type="xs:double"/>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="FilmSize" type="XYType"/>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="FilmColor" type="xs:string"/>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="FilmNormalTone" type="xs:boolean"/>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="Price" type="xs:double"/>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipTo" type="ShipToType"/>
</xs:sequence>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string" use="required"/>
<xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartFilms"/>
    <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndFilms"/>
</xs:complexType>
<xs:complexType name="PhaseShiftType">
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="PhaseShiftQualityId"
type="xs:string"/>
            </xs:sequence>
            <xs:element name="PsmWavelength" type="xs:double"/>
            <xs:sequence minOccurs="0">
                <xs:element name="TransmissionTarget"
type="xs:double"/>
                <xs:sequence minOccurs="0">
                    <xs:element name="TransmissionReferenceOnly"
type="xs:boolean"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="TransmissionTolerance"
type="xs:double"/>
                        </xs:sequence>
                        <xs:sequence minOccurs="0">
                            <xs:element name="TransmissionRange"
type="xs:double"/>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="TransmissionError"
type="xs:double"/>
                                </xs:sequence>
                                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                    <xs:element name="TransmissionEquipReqd"
type="xs:string"/>
                                    <xs:sequence minOccurs="0">

```

```

        <xss:element name="TransmissionModeReqd"
type="xs:string"/>
                </xss:sequence>
            </xss:sequence>
            <xss:sequence minOccurs="0" maxOccurs="unbounded">
                <xss:sequence minOccurs="0">
                    <xss:element name="TransmissionMarkSiteId"
type="xs:string"/>
                </xss:sequence>
                <xss:element name="TransmissionMarkLocation"
type="XYType"/>
                </xss:sequence>
                <xss:sequence minOccurs="0">
                    <xss:element name="TransmissionMarkFeature"
type="xs:string"/>
                </xss:sequence>
                <xss:sequence minOccurs="0">
                    <xss:element
name="TransmissionMarkLocationDrawing" type="xs:string"/>
                </xss:sequence>
                <xss:sequence minOccurs="0">
                    <xss:element name="TransmissionMarkDrawing"
type="xs:string"/>
                </xss:sequence>
                </xss:sequence>
                <xss:sequence minOccurs="0">
                    <xss:element name="PhaseAngleTarget"
type="xs:double"/>
                    <xss:sequence minOccurs="0">
                        <xss:element name="PhaseAngleReferenceOnly"
type="xs:boolean"/>
                    </xss:sequence>
                    <xss:sequence minOccurs="0">
                        <xss:element name="PhaseAngleTolerance"
type="xs:double"/>
                    </xss:sequence>
                    <xss:sequence minOccurs="0">
                        <xss:element name="PhaseAngleRange"
type="xs:double"/>
                    </xss:sequence>
                    <xss:sequence minOccurs="0">
                        <xss:element name="PhaseAngleError"
type="xs:double"/>
                    </xss:sequence>
                    <xss:sequence minOccurs="0" maxOccurs="unbounded">
                        <xss:element name="PhaseAngleEquipReqd"
type="xs:string"/>
                        <xss:sequence minOccurs="0">
                            <xss:element name="PhaseAngleModeReqd"
type="xs:string"/>
                        </xss:sequence>
                    </xss:sequence>
                    <xss:sequence minOccurs="0" maxOccurs="unbounded">
                        <xss:sequence minOccurs="0">
                            <xss:element name="PhaseAngleSiteId"
type="xs:string"/>
                        </xss:sequence>
                    </xss:sequence>
                </xss:sequence>
            </xss:sequence>
        </xss:element>
    
```

```

<xs:element name="PhaseAngleMarkLocation"
type="XYType" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="PhaseAngleMarkFeature"
type="xs:string" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element
name="PhaseAngleMarkLocationDrawing" type="xs:string" />
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="PhaseAngleMarkDrawing"
type="xs:string" />
                            </xs:sequence>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="EtchDepthTarget" type="xs:double" />
                                <xs:sequence minOccurs="0">
                                    <xs:element name="EtchDepthReferenceOnly"
type="xs:boolean" />
                                        </xs:sequence>
                                        <xs:sequence minOccurs="0">
                                            <xs:element name="EtchDepthTolerance"
type="xs:double" />
                                                </xs:sequence>
                                                <xs:sequence minOccurs="0">
                                                    <xs:element name="EtchDepthRange"
type="xs:double" />
                                                        </xs:sequence>
                                                        <xs:sequence minOccurs="0">
                                                            <xs:element name="EtchDepthError"
type="xs:double" />
                                                                </xs:sequence>
                                                                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                                                    <xs:element name="EtchDepthEquipReqd"
type="xs:string" />
                                                                        <xs:sequence minOccurs="0">
                                                                            <xs:element name="EtchDepthModeReqd"
type="xs:string" />
                                                                                </xs:sequence>
                                                                                </xs:sequence>
                                                                                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                                                                    <xs:sequence minOccurs="0">
                                                                                        <xs:element name="EtchDepthSiteId"
type="xs:string" />
                                                                                            </xs:sequence>
                                                                                            </xs:sequence>
                                                                                            <xs:element name="EtchDepthMarkLocation"
type="XYType" />
                                                                                                </xs:sequence>
                                                                                                <xs:sequence minOccurs="0">
                                                                                                    <xs:element name="EtchDepthMarkFeature"
type="xs:string" />
                                                                                                        </xs:sequence>
                                                                                                        <xs:sequence minOccurs="0">
                                                                                                            <xs:element name="EtchDepthMarkLocationDrawing"
type="xs:string" />

```

```

        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="EtchDepthMarkDrawing"
type="xs:string"/>
            </xs:sequence>
            </xs:sequence>
        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required"/>
        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartPhaseShift"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndPhaseShift"/>
    </xs:complexType>
    <xs:complexType name="RegistrationType">
        <xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="RegistrQualityId"
type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="RegistrError" type="xs:double"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="RegistrScale" type="XYType"/>
                    <xs:sequence minOccurs="0">
                        <xs:element name="RegistrScaleReferenceOnly"
type="xs:boolean"/>
                        </xs:sequence>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="RegistrResidual" type="XYType"/>
                        <xs:sequence minOccurs="0">
                            <xs:element name="RegistrResidualReferenceOnly"
type="xs:boolean"/>
                            </xs:sequence>
                        </xs:sequence>
                        <xs:sequence minOccurs="0">
                            <xs:element name="RegistrThreeSigma" type="XYType"/>
                            <xs:sequence minOccurs="0">
                                <xs:element
name="RegistrThreeSigmaReferenceOnly" type="xs:boolean"/>
                                </xs:sequence>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="RegistrResidualThreeSigma"
type="XYType"/>
                                <xs:sequence minOccurs="0">
                                    <xs:element name="RegistrTolerance"
type="xs:double"/>
                                    </xs:sequence>
                                </xs:sequence>
                                <xs:sequence minOccurs="0">
                                    <xs:element name="RegistrOrtho" type="xs:double"/>
                                </xs:sequence>
                            </xs:sequence>
                        </xs:sequence>
                    </xs:sequence>
                </xs:sequence>
            </xs:sequence>
        </xs:sequence>
    </xs:complexType>

```



```
<xs:sequence minOccurs="0">
    <xs:element name="RegistrOrthoReferenceOnly"
type="xs:boolean"/>
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="RegistrRelative" type="xs:string"/>
    <xs:sequence minOccurs="0">
        <xs:element name="RegistrRelativeReferenceOnly"
type="xs:boolean"/>
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="unbounded">
        <xs:element name="RegistrRefMaskId"
type="xs:string"/>
        <xs:element name="RegistrRefMaskSetId"
type="xs:string"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="RegistrRefMaskName"
type="xs:string"/>
            <xs:element name="RegistrRefMaskSetName"
type="xs:string"/>
            <xs:sequence minOccurs="0">
                <xs:element name="RegistrRefMaskSetVersion"
type="xs:string"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="RegistrEquipReqd"
type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                    <xs:element name="EquipSiteReqd" type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="RegistrStdGrid" type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                    <xs:element name="RegistrRefMethodReqd"
type="xs:string"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="RegistrAlgorithm"
type="xs:string"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="RegistrCompensationTemperature"
type="xs:double"/>
                        </xs:sequence>
                        <xs:sequence minOccurs="0" maxOccurs="unbounded">
                            <xs:sequence minOccurs="0">
                                <xs:element name="RegistrMarkId"
type="xs:string"/>
                                </xs:sequence>
                            <xs:sequence minOccurs="0">

```

```

        <xss:element name="MaskRegistrMark"
type="XYType" />
        </xss:sequence>
        <xss:sequence minOccurs="0">
            <xss:element name="CellRegistrMark"
type="XYType" />
            </xss:sequence>
            <xss:sequence minOccurs="0">
                <xss:element name="MeasureFileName"
type="xs:string" />
                </xss:sequence>
                <xss:sequence minOccurs="0">
                    <xss:element name="RegistrMarkFeature"
type="xs:string" />
                    </xss:sequence>
                    <xss:sequence minOccurs="0">
                        <xss:element name="RegistrMarkLocationDrawing"
type="xs:string" />
                        </xss:sequence>
                        <xss:sequence minOccurs="0">
                            <xss:element name="RegistrMarkDrawing"
type="xs:string" />
                            </xss:sequence>
                            <xss:sequence minOccurs="0">
                                <xss:element name="RegistrMarkSeparation"
type="XYType" />
                                <xss:element name="RegistrMarkCount"
type="XYType" />
                                </xss:sequence>
                            </xss:sequence>
                            <xss:attribute name="groupName" type="xs:string" use="required"/>
                            <xss:attribute name="p10Start" type="xs:string" use="required"
fixed="StartRegistration"/>
                            <xss:attribute name="p10End" type="xs:string" use="required"
fixed="EndRegistration"/>
                        </xss:complexType>
                        <xss:complexType name="CdGroupType">
                            <xss:sequence>
                                <xss:sequence minOccurs="0">
                                    <xss:element name="CdDefinition"
type="CdDefinitionType" />
                                    </xss:sequence>
                                    <xss:sequence minOccurs="0">
                                        <xss:element name="NumberOfCds" type="xs:integer" />
                                    </xss:sequence>
                                    <xss:sequence minOccurs="0" maxOccurs="unbounded">
                                        <xss:sequence minOccurs="0">
                                            <xss:element name="CdSiteId" type="xs:string" />
                                        </xss:sequence>
                                        <xss:element name="CdLocation" type="XYType" />
                                    </xss:sequence>
                                    <xss:sequence minOccurs="0">
                                        <xss:element name="CdMatrixFileName"
type="xs:string" />
                                        </xss:sequence>
                                    </xss:sequence>
                                </xss:sequence>
                            </xss:complexType>
                        </xss:sequence>
                    </xss:sequence>
                </xss:sequence>
            </xss:sequence>
        </xss:sequence>
    </xss:sequence>

```

```

<xs:attribute name="groupName" type="xs:string" use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required" /
fixed="StartCdGroup"/>
<xs:attribute name="p10End" type="xs:string" use="required" /
fixed="EndCdGroup"/>
</xs:complexType>
<xs:complexType name="CdDefinitionType">
<xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdQualityId" type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdData" type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdDigitized" type="xs:boolean" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdToneClear" type="xs:boolean" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdMorphography" type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdPercentClear" type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdPercentClearWindow"
type="WindowType" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdTarget" type="xs:double" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdOrientation" type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdPitch" type="xs:double" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdFeature" type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdLocationDrawing"
type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdDrawing" type="xs:string" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdReferenceOnly"
type="xs:boolean" />
</xs:sequence>
<xs:sequence minOccurs="0">
<xs:element name="CdTolerance" type="xs:double" />
</xs:sequence>
<xs:sequence minOccurs="0">

```

```

        <xs:element name="CdRange" type="xs:double" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="CdThreeSigma" type="xs:double" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="CdDeviationFromTarget"
type="xs:double" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="CdDeviationFromMean"
type="xs:double" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="CdStd" type="xs:string" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="CdCorrelationId" type="xs:string" />
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="unbounded">
        <xs:element name="CdEquipReqd" type="xs:string" />
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="unbounded">
        <xs:element name="EquipSiteReqd" type="xs:string" />
    </xs:sequence>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string" use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartCdDefinition"/>
<xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndCdDefinition"/>
</xs:complexType>
<xs:complexType name="CdSetType" >
    <xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdGroupName" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdReferenceOnly"
type="xs:boolean" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdQualityId" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdTolerance" type="xs:double" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdRange" type="xs:double" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdThreeSigma" type="xs:double" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdDeviationFromTarget"
type="xs:double" />
        </xs:sequence>
    </xs:sequence>

```

```

<xs:sequence minOccurs="0">
    <xs:element name="CdDeviationFromMean"
type="xs:double"/>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="CdStd" type="xs:string"/>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="CdCorrelationId" type="xs:string"/>
</xs:sequence>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string" use="required"/>
<xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartCdSet"/>
<xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndCdSet"/>
</xs:complexType>
<xs:complexType name="CdXyDefinitionType">
    <xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdXGroup" type="xs:string"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdYGroup" type="xs:string"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdXySite" type="CdXySiteType"/>
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdXyTolerance" type="xs:double"/>
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdXyDeviation" type="xs:double"/>
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdXyReferenceOnly"
type="xs:boolean"/>
            </xs:sequence>
        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required"/>
        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartCdXyDefinition"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndCdXyDefinition"/>
        </xs:complexType>
        <xs:complexType name="CdXySiteType">
            <xs:sequence>
                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                    <xs:sequence minOccurs="0">
                        <xs:element name="CdHorizontalId"
type="xs:string"/>
                    </xs:sequence>
                    <xs:element name="CdHorizontalLocation"
type="XYType"/>
                    <xs:sequence minOccurs="0">
                        <xs:element name="CdVerticalId"
type="xs:string"/>
                    </xs:sequence>
                </xs:sequence>
            </xs:sequence>
        </xs:complexType>
    </xs:sequence>
</xs:complexType>

```

```

        </xs:sequence>
        <xs:element name="CdVerticalLocation" type="XYType" />
    </xs:sequence>
</xs:attribute>
<xs:attribute name="groupName" type="xs:string" use="required"/>
<xs:attribute name="p10Start" type="xs:string" use="required" fixed="StartCdXySite"/>
<xs:attribute name="p10End" type="xs:string" use="required" fixed="EndCdXySite"/>
</xs:complexType>
<xs:complexType name="CdIsoDenseDefinitionType">
    <xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdIsoGroup" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdDenseGroup" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdIsoDenseTolerance" type="xs:double" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="CdIsoDenseReferenceOnly" type="xs:boolean" />
        </xs:sequence>
        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required"/>
        <xs:attribute name="p10Start" type="xs:string" use="required" fixed="StartCdIsoDenseDefinition"/>
        <xs:attribute name="p10End" type="xs:string" use="required" fixed="EndCdIsoDenseDefinition"/>
    </xs:complexType>
    <xs:complexType name="OpcDefinitionType">
        <xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="OpcType" type="xs:string" />
            <xs:sequence minOccurs="0">
                <xs:element name="OpcMinimumFeatureSize" type="xs:double" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="OpcMinimumGap" type="xs:double" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="OpcPatternSeparate" type="xs:boolean" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="OpcPatternModifiable" type="xs:boolean" />
            </xs:sequence>
        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required" />
    </xs:complexType>

```

```

        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartOpcDefinition"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndOpcDefinition"/>
    </xs:complexType>
<xs:complexType name="DefectDefinitionType">
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="DefectQualityId" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="VisualInspectionOk"
type="xs:boolean" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="VisualInspectionReqd"
type="xs:boolean" />
                </xs:sequence>
                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                    <xs:element name="VisualInspCriteria"
type="xs:string" />
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="AutoInspectionReqd"
type="xs:boolean" />
                        </xs:sequence>
                        <xs:sequence minOccurs="0">
                            <xs:element name="DieToDieInspection"
type="xs:boolean" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSize"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSizeCl"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSizeDk"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSizeClAdj"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSizeClAdjRep"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSizeDkAdj"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSizeDkAdjRep"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectSizeClIso"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">

```

```

<xs:element name="DefectSizeClIsoRep"
type="xs:double"/>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="DefectSizeDkIso" type="xs:double"/>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="DefectSizeDkIsoRep"
type="xs:double"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="DefectDensity" type="xs:double"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="DefectCount" type="xs:integer"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="DefectCountRep" type="xs:integer"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="DefectiveDieDensity"
type="xs:double"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="DefectiveDieCount"
type="xs:integer"/>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="DefectiveDieCountRep"
type="xs:integer"/>
                                    </xs:sequence>
                                    <xs:sequence minOccurs="0">
                                        <xs:element name="PercentDefectiveDie"
type="xs:double"/>
                                            </xs:sequence>
                                            <xs:sequence minOccurs="0">
                                                <xs:element name="EdgeRoughness" type="xs:double"/>
                                            </xs:sequence>
                                            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                                <xs:element name="InspectionArea" type="WindowType"/>
                                            </xs:sequence>
                                            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                                <xs:element name="InspectionAreaExclude"
type="WindowType"/>
                                                    </xs:sequence>
                                                    <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                                        <xs:element name="ScratchSizeFront"
type="xs:double"/>
                                                            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                                                <xs:element name="ScratchInspArea"
type="WindowType"/>
                                                                    <xs:sequence minOccurs="0"
maxOccurs="unbounded">
                                                                        <xs:element name="ScratchInspExclude"
type="WindowType"/>
                                                                            </xs:sequence>
                                                                        </xs:sequence>

```

```

        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="ScratchSizeBack" type="xs:double"/>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="ScratchInspArea"
type="WindowType" />
                <xs:sequence minOccurs="0"
maxOccurs="unbounded">
                    <xs:element name="ScratchInspExclude"
type="WindowType" />
                    </xs:sequence>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="GoodFields" type="xs:string"/>
            </xs:sequence>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="DefectEquipReqd" type="xs:string"/>
                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                    <xs:element name="EquipSiteReqd"
type="xs:string" />
                    </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="DefectInspModeReqd"
type="xs:string" />
                    </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="DefectInspPixelSizeReqd"
type="xs:string" />
                    </xs:sequence>
                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                    <xs:element name="DefectType"
type="xs:string" />
                    <xs:element name="DefectInspSensitivityReqd"
type="xs:string" />
                    <xs:sequence minOccurs="0"
maxOccurs="unbounded">
                        <xs:element name="BinSize"
type="xs:string" />
                        <xs:element name="SeverityCriterionReqd"
type="xs:string" />
                        </xs:sequence>
                    </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="DefectSetupFileNameReqd"
type="xs:string" />
                    </xs:sequence>
                </xs:sequence>
            </xs:sequence>
            <xs:element name="DatabaseInspection"
type="DatabaseInspectionType" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="RepairDefinition"
type="RepairDefinitionType" />
                </xs:sequence>
            </xs:sequence>
        </xs:sequence>
    
```

```

<xs:attribute name="groupName" type="xs:string" use="required" />
    <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartDefectDefinition"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndDefectDefinition"/>
    </xs:complexType>
<xs:complexType name="DatabaseInspectionType">
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="Price" type="xs:double" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="DatabaseSource" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="DatabaseTopCell" type="xs:string" />
            <xs:element name="DatabaseLayer" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="DatabaseFileName"
type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="DatabaseUnit" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="UserUnit" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="DatabaseWithJob"
type="xs:boolean" />
            <xs:sequence minOccurs="0">
                <xs:element name="DatabaseJobName"
type="xs:string" />
                <xs:element name="DatabaseJobLevel"
type="xs:string" />
            </xs:sequence>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="DatabaseArea" type="WindowType" />
            </xs:sequence>
        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required" />
        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartDatabaseInspection"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndDatabaseInspection"/>
    </xs:complexType>
<xs:complexType name="RepairDefinitionType">
    <xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="RepairEquipReqd" type="xs:string" />
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="EquipSiteReqd"
type="xs:string" />
            </xs:sequence>
        </xs:sequence>
    </xs:sequence>

```

```

        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required"/>
        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartRepairDefinition"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndRepairDefinition"/>
    </xs:complexType>
    <xs:complexType name="SurfaceDefinitionType">
        <xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="SurfaceInspection"
type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="SurfaceQualityId"
type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                    <xs:sequence minOccurs="0">
                        <xs:element name="SurfInspEquipReqd"
type="xs:string"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0" maxOccurs="unbounded">
                        <xs:element name="EquipSiteReqd"
type="xs:string"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="SurfInspModeReqd"
type="xs:string"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="SurfInspPixelSizeReqd"
type="xs:double"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0" maxOccurs="unbounded">
                        <xs:element name="SurfDefectType"
type="xs:string"/>
                    </xs:sequence>
                    <xs:element name="SurfInspSensitivityReqd"
type="xs:string"/>
                    <xs:sequence minOccurs="0" maxOccurs="unbounded">
                        <xs:element name="BinSize" type="xs:string"/>
                        <xs:element name="SeverityCriterionReqd"
type="xs:string"/>
                    </xs:sequence>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="SurfInspSetupFileNameReqd"
type="xs:string"/>
                    </xs:sequence>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="SurfInspMethod" type="xs:string"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="SurfInspArea" type="WindowType"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">

```

```

        <xs:element name="SurfInspPellTop" type="xs:double" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="SurfInspPellTopOnClearPattern"
type="xs:double" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="SurfInspPellTopOnOpaquePattern"
type="xs:double" />
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="SurfInspPellTopOutsideFrame"
type="xs:double" />
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="SurfInspPellTopOutsideOnOpaque"
type="xs:double" />
                                    </xs:sequence>
                                    <xs:sequence minOccurs="0">
                                        <xs:element name="SurfInspPellTopOutsideMembrane"
type="xs:double" />
                                            </xs:sequence>
                                            <xs:sequence minOccurs="0">
                                                <xs:element name="SurfInspPellTopInsideMembrane"
type="xs:double" />
                                                    </xs:sequence>
                                                    <xs:sequence minOccurs="0">
                                                        <xs:element name="SurfInspPellTopOutsideOnFrame"
type="xs:double" />
                                                            </xs:sequence>
                                                            <xs:sequence minOccurs="0">
                                                                <xs:element name="SurfInspPellTopInsideOnFrame"
type="xs:double" />
                                                                </xs:sequence>
                                                                <xs:sequence minOccurs="0">
                                                                    <xs:element name="SurfInspPellBottom"
type="xs:double" />
                                                                    </xs:sequence>
                                                                    <xs:sequence minOccurs="0">
                                                                        <xs:element name="SurfInspGlassSide"
type="xs:double" />
                                                                        </xs:sequence>
                                                                        <xs:sequence minOccurs="0">
                                                                            <xs:element name="SurfInspPatternSide"
type="xs:double" />
                                                                            </xs:sequence>
                                                                            <xs:sequence minOccurs="0">
                                                                                <xs:element name="TransmissionDefectClear"
type="xs:double" />
                                                                                </xs:sequence>
                                                                                <xs:sequence minOccurs="0">
                                                                                    <xs:element name="TransmissionDefectDark"
type="xs:double" />
                                                                                    </xs:sequence>
                                                                                </xs:sequence>
                                                                                <xs:attribute name="groupName" type="xs:string" use="required" />
```



```
        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartSurfaceDefinition"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndSurfaceDefinition"/>
    </xs:complexType>
<xs:complexType name="SemPhotoType">
    <xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="StartSemPhoto" type="xs:string" />
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:sequence minOccurs="0">
                    <xs:element name="SemPhotoSiteId"
type="xs:string" />
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="SemPhotoLocation"
type="XYType" />
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="SemPhotoMatrixFilename"
type="xs:string" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="CdFeature" type="xs:string" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="CdLocationDrawing"
type="xs:string" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="CdDrawing" type="xs:string" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="SemPhotoScale"
type="xs:double" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="SemPhotoTilt"
type="xs:double" />
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="SemPhotoRotation"
type="xs:double" />
            </xs:sequence>
            </xs:sequence>
        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required" />
        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartSemPhoto"/>
        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndSemPhoto"/>
    </xs:complexType>
<xs:complexType name="MaskDefinitionType">
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="MaskName" type="xs:string" />
        </xs:sequence>
    </xs:sequence>

```

```

        </xs:sequence>
        <xs:element name="DeliverableMask" type="xs:boolean"/>
        <xs:element name="MaskOptions" type="MaskOptionsType"/>
    </xs:sequence>
    <xs:attribute name="groupName" type="xs:string" use="required"/>
    <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartMaskDefinition"/>
    <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndMaskDefinition"/>
</xs:complexType>
<xs:complexType name="CellDefinitionType">
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="PatternOptions"
type="PatternOptionsType"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CellInstance"
type="CellInstanceType"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="PatternInstance"
type="PatternInstanceType"/>
        </xs:sequence>
    </xs:sequence>
    <xs:attribute name="groupName" type="xs:string" use="required"/>
    <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartCellDefinition"/>
    <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndCellDefinition"/>
</xs:complexType>
<xs:complexType name="PatternGroupType">
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="PatternOptions"
type="PatternOptionsType"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="PatternDefinitions"
type="PatternDefinitionsType"/>
        </xs:sequence>
    </xs:sequence>
    <xs:attribute name="groupName" type="xs:string" use="required"/>
    <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartPatternGroup"/>
    <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndPatternGroup"/>
</xs:complexType>
<xs:complexType name="PatternDefinitionsType">
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="PatternName" type="xs:string"/>
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="PatternVisualId" type="xs:string"/>
        </xs:sequence>
        <xs:sequence minOccurs="0">

```

```

        <xs:element name="FigureCount" type="xs:double"/>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="MinimumFeatureSize"
type="xs:string"/>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="MinimumFeatureLocation"
type="xs:string"/>
                    </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="OpcDefinition"
type="OpcDefinitionType"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="OpticalMaskSetId"
type="xs:string"/>
                            <xs:sequence minOccurs="0">
                                <xs:element name="OpticalMaskId"
type="xs:string"/>
                                    </xs:sequence>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="OpticalMaskTitle"
type="xs:string"/>
                                    </xs:sequence>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="PatternOptions"
type="PatternOptionsType"/>
                                    </xs:sequence>
                            </xs:sequence>
                            <xs:attribute name="groupName" type="xs:string" use="required"/>
                            <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartPatternDefinitions"/>
                            <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndPatternDefinitions"/>
                        </xs:complexType>
                        <xs:complexType name="CellInstanceType">
                            <xs:sequence>
                                <xs:sequence minOccurs="0">
                                    <xs:element name="PatternOptions"
type="PatternOptionsType"/>
                                        </xs:sequence>
                                <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                    <xs:element name="Placement" type="PlacementType"/>
                                </xs:sequence>
                            </xs:sequence>
                            <xs:attribute name="groupName" type="xs:string" use="required"/>
                            <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartCellInstance"/>
                            <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndCellInstance"/>
                        </xs:complexType>
                        <xs:complexType name="PatternInstanceType">
                            <xs:sequence>
                                <xs:sequence minOccurs="0">

```



```
<xs:element name="PatternOptions"
type="PatternOptionsType"/>
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="unbounded">
        <xs:element name="Placement" type="PlacementType"/>
    </xs:sequence>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string" use="required"/>
<xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartPatternInstance"/>
    <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndPatternInstance"/>
</xs:complexType>
<xs:complexType name="PlacementType">
    <xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="Location" type="XYType"/>
            <xs:sequence minOccurs="0">
                <xs:element name="SteppingDistance"
type="XYType"/>
                <xs:element name="SteppingCount"
type="XYType"/>
                    </xs:sequence>
                </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ArrayDiameter" type="xs:double"/>
                <xs:element name="ArrayCenter" type="XYType"/>
            <xs:sequence minOccurs="0">
                <xs:element name="ArrayDiameterInclusive"
type="xs:boolean"/>
                    </xs:sequence>
                </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="DataOffset" type="xs:string"/>
            </xs:sequence>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="Dropout" type="XYType"/>
            <xs:sequence minOccurs="0">
                <xs:element name="ScribeTone"
type="xs:string"/>
                <xs:element name="ScribeInsideCorners"
type="WindowType"/>
                <xs:element name="ScribeOutsideCorners"
type="WindowType"/>
                    </xs:sequence>
                </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="LocationSpec" type="xs:string"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="CdMeasureDie" type="xs:string"/>
            </xs:sequence>
        </xs:sequence>
        <xs:attribute name="groupName" type="xs:string" use="required"/>
        <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartPlacement"/>
```

```

        <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndPlacement"/>
    </xs:complexType>
    <xs:complexType name="PatternOptionsType">
        <xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="PatternFunction" type="xs:string"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="DataFileSize" type="xs:integer"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="DataChecksum" type="xs:integer"/>
                <xs:element name="DataChecksumType"
type="xs:string"/>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="PatternAddressSize"
type="xs:double"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="ScaleFactor" type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="DigitizedDataDark"
type="xs:boolean"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="StripeHeight" type="xs:double"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0">
                        <xs:element name="UnscaledPatternSize"
type="XYType"/>
                        </xs:sequence>
                        <xs:sequence minOccurs="0">
                            <xs:element name="MfgBiasPreapplied"
type="xs:string"/>
                            </xs:sequence>
                            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                                <xs:element name="LithoModeReqd" type="xs:string"/>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="VirtualAddress" type="xs:boolean"/>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="SurroundingTone" type="xs:string"/>
                                <xs:element name="SurroundingWidth"
type="xs:double"/>
                                <xs:element name="SurroundingHeight"
type="xs:double"/>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="MirrorPattern" type="xs:boolean"/>
                            </xs:sequence>
                            <xs:sequence minOccurs="0">
                                <xs:element name="ShipPlot" type="ShipPlotType"/>
                            </xs:sequence>

```

```

<xs:sequence minOccurs="0">
    <xs:element name="PatternPlotApprReqd"
type="xs:boolean"/>
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="unbounded">
        <xs:element name="Films" type="FilmsType"/>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="PhaseShift" type="PhaseShiftType"/>
    </xs:sequence>
    <xs:sequence minOccurs="0" maxOccurs="unbounded">
        <xs:element name="Registration"
type="RegistrationType"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdGroup" type="CdGroupType"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdSet" type="CdSetType"/>
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="CdXyDefinition"
type="CdXyDefinitionType"/>
            </xs:sequence>
            <xs:sequence minOccurs="0" maxOccurs="unbounded">
                <xs:element name="CdIsoDenseDefinition"
type="CdIsoDenseDefinitionType"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="PercentClear" type="xs:double"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="InspectAllSites"
type="xs:boolean"/>
                    </xs:sequence>
                    <xs:sequence minOccurs="0" maxOccurs="unbounded">
                        <xs:element name="DefectDefinition"
type="DefectDefinitionType"/>
                        </xs:sequence>
                        <xs:sequence minOccurs="0">
                            <xs:element name="ButtingError" type="xs:double"/>
                        </xs:sequence>
                        <xs:sequence minOccurs="0">
                            <xs:element name="AdditionalPatternInfo"
type="xs:string"/>
                            </xs:sequence>
                            </xs:sequence>
                            <xs:attribute name="groupName" type="xs:string" use="required"/>
                            <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartPatternOptions"/>
                            <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndPatternOptions"/>
                            </xs:complexType>
                            <xs:complexType name="ShippableDataType">
                                <xs:sequence>
                                    <xs:sequence minOccurs="0">

```

```

<xs:element name="SendMaskShippedDateTime"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="SendFinalAuditDateTime"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipCdData" type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipCdPrintout" type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipCdUniformityMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipAimData" type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipDefectData" type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipThruPellicleData"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipManualInspectionForm"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>

```

```

        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="ShipInspDatabaseData"
type="xs:boolean"/>
            <xs:sequence minOccurs="0">
                <xs:element name="InspDatabaseDataFormat"
type="xs:string"/>
                </xs:sequence>
                <xs:sequence minOccurs="0">
                    <xs:element name="ShipTo" type="ShipToType"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ShipFirstPrepellDieDbMskMap"
type="xs:boolean"/>
                <xs:sequence minOccurs="0">
                    <xs:element name="ShipTo" type="ShipToType"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ShipFirstPrepellDieDbPtnMap"
type="xs:boolean"/>
                <xs:sequence minOccurs="0">
                    <xs:element name="ShipTo" type="ShipToType"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ShipFirstPrepellDieDieMap"
type="xs:boolean"/>
                <xs:sequence minOccurs="0">
                    <xs:element name="ShipTo" type="ShipToType"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ShipFirstRotPrepellDieDieMap"
type="xs:boolean"/>
                <xs:sequence minOccurs="0">
                    <xs:element name="ShipTo" type="ShipToType"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ShipFinalPrepellDieDbMskMap"
type="xs:boolean"/>
                <xs:sequence minOccurs="0">
                    <xs:element name="ShipTo" type="ShipToType"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ShipFinalPrepellDieDbPtnMap"
type="xs:boolean"/>
                <xs:sequence minOccurs="0">
                    <xs:element name="ShipTo" type="ShipToType"/>
                </xs:sequence>
            </xs:sequence>
            <xs:sequence minOccurs="0">
                <xs:element name="ShipFinalPrepellDieDieMap"
type="xs:boolean"/>

```

```

<xs:sequence minOccurs="0">
    <xs:element name="ShipTo" type="ShipToType" />
</xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFinalRotPrepellDieDieMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFirstPostpellDieDbMskMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFirstPostpellDieDbPtnMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFirstPostpellDieDieMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFirstRotPostpellDieDieMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFinalPostpellDieDbMskMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFinalPostpellDieDbPtnMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFinalPostpellDieDieMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">

```

```

        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipFinalRotPostpellDieDieMap"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipRepairData" type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipRegistrData"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipArrayRegistrMap"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipClosureData"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipDieFitMap" type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipMeasureFileRegistrMap"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipFieldFitMap"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>

```



```
<xs:sequence minOccurs="0">
    <xs:element name="ShipCentralityData"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipCentralityMap"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipSurfInspMeasurements"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipSurfInspInspectionMap"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipSurfInspPellTopMap"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipSurfInspPellBottomMap"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipSurfInspGlassSideMap"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipSurfInspPatternSideMap"
type="xs:boolean"/>
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
```

```

<xs:element name="ShipStarlightMap"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipPhaseShiftMeasurements"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipPhaseShiftReport"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipSemPhotos" type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipBarcodePlot"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0" maxOccurs="unbounded">
    <xs:element name="Films" type="FilmsType" />
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipCertificateOfConformance"
type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0" maxOccurs="unbounded">
    <xs:element name="ShipCustomerQualityForm"
type="xs:string" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">
    <xs:element name="ShipTraveler" type="xs:boolean" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0">

```

```

<xs:element name="PercentClearRequested"
type="xs:boolean" />
    <xs:sequence minOccurs="0">
        <xs:element name="ShipTo" type="ShipToType" />
    </xs:sequence>
</xs:sequence>
<xs:sequence minOccurs="0" maxOccurs="unbounded">
    <xs:element name="ShipSpecialRequest"
type="xs:string" />
        <xs:sequence minOccurs="0">
            <xs:element name="ShipTo" type="ShipToType" />
        </xs:sequence>
    </xs:sequence>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string" use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartShippableData"/>
    <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndShippableData" />
</xs:complexType>
<xs:complexType name="ShipToType" >
    <xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="EmailAddress" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="FtpAddress" type="FtpAddressType" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="WebAddress" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="MailingAddress" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="ShipToFax" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="DueDateTimeRequested"
type="xs:dateTime" />
                </xs:sequence>
            </xs:sequence>
            <xs:attribute name="groupName" type="xs:string" use="required" />
            <xs:attribute name="p10Start" type="xs:string" use="required"
fixed="StartShipTo"/>
                <xs:attribute name="p10End" type="xs:string" use="required"
fixed="EndShipTo" />
            </xs:complexType>
<xs:complexType name="FtpAddressType" >
    <xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="FtpLogin" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">
            <xs:element name="FtpPassword" type="xs:string" />
        </xs:sequence>
        <xs:sequence minOccurs="0">

```

```

        <xs:element name="FtpDirectory" type="xs:string" />
    </xs:sequence>
    <xs:sequence minOccurs="0">
        <xs:element name="FtpMode" type="xs:string" />
    </xs:sequence>
</xs:sequence>
</xs:complexType>
<xs:complexType name="WindowType" >
    <xs:sequence>
        <xs:element name="X1" type="xs:double" />
        <xs:element name="Y1" type="xs:double" />
        <xs:element name="X2" type="xs:double" />
        <xs:element name="Y2" type="xs:double" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="XYRTType" >
    <xs:sequence>
        <xs:element name="X" type="xs:double" />
        <xs:element name="Y" type="xs:double" />
        <xs:element name="R" type="xs:double" />
    </xs:sequence>
</xs:complexType>
<xs:complexType name="XYType" >
    <xs:sequence>
        <xs:element name="X" type="xs:double" />
        <xs:element name="Y" type="xs:double" />
    </xs:sequence>
</xs:complexType>
</xs:schema>
```

**7.7 Mask Results Data Structure Syntax in Extensible Markup Language (XML) Format** — The following file defines the Mask Results Data Structure Syntax (above) in Extensible Markup Language Schema Definition (XSD) format. Should the user choose to implement the mask results data file in Extensible Markup Language (XML), the file must validate against this XSD. For optimal viewing, paste the text into a program designed to read XML such as an internet browser. The content of both versions of representation of mask results data should be entirely equivalent. Since the XML schema is derived directly from the Mask Results Data Structure Syntax, in the event of a discrepancy between the two, the Data Structure Syntax should be considered to be the more correct. An aid to understanding this structure is attached under RELATED INFORMATION as SEMI PHOTOMASK MASK RESULTS STRUCTURE TREE DIAGRAM.

```

<?xml version="1.0" encoding="UTF-8" ?>
- <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  version="P10-0705 ">
  <xs:element name="MaskResults" type="MaskResultType" />
- <xs:complexType name="MaskResultType">
    - <xs:sequence>
        <xs:element name="SemiRevision" type="xs:string" />
        <xs:element name="Customer" type="xs:string" />
        <xs:element name="Vendor" type="xs:string" />
        <xs:element name="FileDateTime" type="xs:dateTime" />
        <xs:element name="OperatorName" type="xs:string"
          minOccurs="0" />
    - <xs:element name="MaskSetId">
```

```

- <xs:complexType>
  - <xs:sequence>
    <xs:element name="VendorInfo"
      type="VendorInfoType" minOccurs="0" />
    <xs:element name="OrderId" type="xs:string"
      minOccurs="0" />
    <xs:element name="MaskSetName"
      type="xs:string" minOccurs="0" />
    <xs:element name="MaskSetVersion"
      type="xs:string" minOccurs="0" />
  - <xs:element name="MaskGroupId"
    maxOccurs="unbounded">
    - <xs:complexType>
      - <xs:sequence>
        <xs:element name="VendorInfo"
          type="VendorInfoType"
          minOccurs="0" />
        - <xs:element name="MaskId"
          maxOccurs="unbounded">
          - <xs:complexType>
            - <xs:sequence>
              <xs:element
                name="MaskResult"
                tsOptions"
                type="MaskResult"
                sOptionsType" />
            </xs:sequence>
            <xs:attribute
              name="groupName"
              type="xs:string"
              use="required" />
            <xs:attribute
              name="p10Start"
              type="xs:string"
              use="required"
              fixed="MaskId" />
            <xs:attribute
              name="p10End"
              type="xs:string"
              use="required"
              fixed="EndMask" />
          </xs:complexType>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="groupName"
        type="xs:string" use="required" />
      <xs:attribute name="p10Start"
        type="xs:string" use="required"
        fixed="MaskGroupId" />
    
```

```

<xs:attribute name="p10End"
    type="xs:string" use="required"
    fixed="EndMaskGroup" />
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string"
    use="required" fixed="MaskSetId" />
<xs:attribute name="p10End" type="xs:string"
    use="required" fixed="EndMaskSet" />
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
    fixed="StartMaskResults" />
<xs:attribute name="p10End" type="xs:string" use="required"
    fixed="EndMaskResults" />
</xs:complexType>
- <xs:complexType name="MaskResultsOptionsType">
    - <xs:sequence>
        <xs:element name="Status" type="xs:string" minOccurs="0"
            />
        <xs:element name="VendorInfo" type="VendorInfoType"
            minOccurs="0" />
        <xs:element name="BillingInformation"
            type="BillingInformationType" minOccurs="0" />
        <xs:element name="MaterialsUsed"
            type="MaterialsUsedType" minOccurs="0" />
        <xs:element name="MfgSiteReqd" type="xs:string"
            minOccurs="0" maxOccurs="unbounded" />
        <xs:element name="MfgSiteUsed" type="xs:string"
            minOccurs="0" />
        <xs:element name="ProductType" type="xs:string" />
        <xs:element name="ProductMagnification" type="xs:string"
            />
        <xs:element name="MaskName" type="xs:string"
            minOccurs="0" />
    - <xs:sequence minOccurs="0" maxOccurs="unbounded">
        <xs:element name="TitleText" type="xs:string" />
        <xs:element name="TitleType" type="xs:string"
            minOccurs="0" />
    </xs:sequence>
    <xs:element name="DueDateTimeCommitted"
        type="xs:dateTime" minOccurs="0" />
    <xs:element name="ElapsedTimeCommitted"
        type="xs:integer" minOccurs="0" />

```

```

- <xs:sequence minOccurs="0">
  <xs:element name="Milestone" type="xs:string" />
  <xs:element name="AdditionalMilestoneInfo"
    type="xs:string" minOccurs="0" />
</xs:sequence>
- <xs:sequence minOccurs="0">
  <xs:element name="PeriodicUpdate" type="xs:string" />
  <xs:element name="AdditionalMilestoneInfo"
    type="xs:string" minOccurs="0" />
</xs:sequence>
- <xs:sequence minOccurs="0">
  <xs:element name="EstimatedArrival" type="xs:string"
    />
  <xs:element name="AdditionalMilestoneInfo"
    type="xs:string" minOccurs="0" />
</xs:sequence>
<xs:element name="MaskShippedDateTime"
  type="xs:dateTime" minOccurs="0" />
<xs:element name="FinalAuditDateTime"
  type="xs:dateTime" minOccurs="0" />
<xs:element name="DesignRule" type="xs:double"
  minOccurs="0" />
- <xs:sequence minOccurs="0">
  - <xs:element name="WaferExposureData">
    - <xs:complexType>
      - <xs:sequence>
        <xs:element
          name="WaferExposureNumericalAperat
          ure" type="xs:double" />
        <xs:element name="WaferExposureSigma"
          type="xs:double" minOccurs="0" />
      - <xs:sequence minOccurs="0">
        <xs:element
          name="WaferExposureSigmaInner"
          type="xs:double" />
        <xs:element
          name="WaferExposureSigmaOuter"
          type="xs:double" />
      </xs:sequence>
      <xs:element
        name="WaferExposureIllumination"
        type="xs:string" />
    </xs:sequence>
    <xs:attribute name="groupName"
      type="xs:string" use="required" />
    <xs:attribute name="p10Start" type="xs:string"
      use="required"
      fixed="StartWaferExposureData" />
    <xs:attribute name="p10End" type="xs:string"
      use="required"
      fixed="EndWaferExposureData" />
  </xs:element>
</xs:sequence>

```

```

        </xs:complexType>
    </xs:element>
    - <xs:element name="AerialImageData">
        - <xs:complexType>
            - <xs:sequence>
                <xs:element name="AimWavelength"
                    type="xs:double" />
                <xs:element
                    name="AimIntensityVariationDelta"
                    type="xs:double" minOccurs="0" />
                <xs:element
                    name="AimFluxIntensityDelta"
                    type="xs:double" minOccurs="0" />
                <xs:element name="AimCdDelta"
                    type="xs:double" minOccurs="0" />
            </xs:sequence>
            <xs:attribute name="groupName"
                type="xs:string" use="required" />
            <xs:attribute name="p10Start" type="xs:string"
                use="required" fixed="StartAerialImageData" />
            <xs:attribute name="p10End" type="xs:string"
                use="required" fixed="EndAerialImageData"
                />
        </xs:complexType>
    </xs:element>
</xs:sequence>
<xs:element name="FabTechnology" type="xs:string"
    minOccurs="0" />
<xs:element name="WaferFab" type="xs:string"
    minOccurs="0" />
<xs:element name="JobOnlyApproved" type="xs:dateTime"
    minOccurs="0" />
<xs:element name="JobWithPatternsApproved"
    type="xs:dateTime" minOccurs="0" />
- <xs:element name="PatternApproved" minOccurs="0">
    - <xs:complexType>
        - <xs:complexContent>
            - <xs:extension base="DateNameType">
                <xs:attribute name="p10MultiValue"
                    use="required" fixed="2" />
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="AllPatternsApproved"
    type="xs:dateTime" minOccurs="0" />
<xs:element name="ApprovalGranted" type="xs:boolean"
    minOccurs="0" />

```

```

<xs:element name="MirrorMask" type="xs:boolean"
    minOccurs="0" />
<xs:element name="MaskRotation" type="xs:string"
    minOccurs="0" />
- <xs:sequence minOccurs="0">
    <xs:element name="CustomerSpec" type="xs:string" />
    <xs:element name="CustomerSpecRevision"
        type="xs:string" />
</xs:sequence>
<xs:element name="Waiver" type="xs:string" minOccurs="0"
    maxOccurs="unbounded" />
<xs:element name="WaiverOverride" type="xs:string"
    minOccurs="0" maxOccurs="unbounded" />
- <xs:sequence minOccurs="0" maxOccurs="unbounded">
    <xs:element name="BarcodeType" type="xs:string"
        minOccurs="0" />
    <xs:element name="BarcodeText" type="xs:string" />
    <xs:element name="BarcodeRotation" type="xs:string"
        />
</xs:sequence>
<xs:element name="ShippingMethodUsed" type="xs:string"
    minOccurs="0" />
<xs:element name="MeasuredPercentClear" type="xs:string"
    minOccurs="0" />
- <xs:element name="Centrality" minOccurs="0">
    - <xs:complexType>
        - <xs:complexContent>
            - <xs:extension base="XyrType">
                <xs:attribute name="p10MultiValue"
                    type="xs:integer" use="required"
                    fixed="3" />
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
- <xs:element name="MeasuredCentrality" minOccurs="0">
    - <xs:complexType>
        - <xs:complexContent>
            - <xs:extension base="XyrType">
                <xs:attribute name="p10MultiValue"
                    type="xs:integer" use="required"
                    fixed="3" />
            </xs:extension>
        </xs:complexContent>
    </xs:complexType>
</xs:element>
<xs:element name="LithoInformation"
    type="LithoInformationType" minOccurs="0"
    maxOccurs="unbounded" />

```

```

<xs:element name="PatternGroupResults"
    type="PatternGroupResultsType" minOccurs="0"
    maxOccurs="unbounded" />
<xs:element name="PhaseShiftMeasurements"
    type="PhaseShiftMeasurementsType" minOccurs="0" />
<xs:element name="RegistrMeasurements"
    type="RegistrMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
<xs:element name="ClosureMeasurements"
    type="ClosureMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
<xs:element name="CdGroupMeasurements"
    type="CdGroupMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
<xs:element name="CdSetResults" type="CdSetResultsType"
    minOccurs="0" maxOccurs="unbounded" />
<xs:element name="CdXyResults" type="CdXyResultsType"
    minOccurs="0" maxOccurs="unbounded" />
<xs:element name="CdIsoDenseResults"
    type="CdIsoDenseResultsType" minOccurs="0"
    maxOccurs="unbounded" />
<xs:element name="DefectMeasurements"
    type="DefectMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
- <xs:element name="ThroughPellicleDefects" minOccurs="0"
    maxOccurs="unbounded">
- <xs:complexType>
- <xs:complexContent>
    <xs:extension
        base="DefectMeasurementsType" />
    </xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element name="SurfaceInspMeasurements"
    type="SurfaceInspMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
<xs:element name="QualityGroupId" type="xs:string"
    minOccurs="0" />
<xs:element name="FinalQcAuditor" type="xs:string"
    minOccurs="0" />
<xs:element name="AdditionalResultsInfo" type="xs:string"
    minOccurs="0" maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
    fixed="StartMaskResultsOptions" />
<xs:attribute name="p10End" type="xs:string" use="required"
    fixed="EndMaskResultsOptions" />
</xs:complexType>
- <xs:complexType name="VendorInfoType">

```

```

- <xs:sequence>
  <xs:element name="VendorContact" type="xs:string"
    minOccurs="0" />
  <xs:element name="VendorPhone" type="xs:string"
    minOccurs="0" />
  <xs:element name="VendorAddress" type="xs:string"
    maxOccurs="unbounded" />
  <xs:element name="VendorFax" type="xs:string"
    minOccurs="0" />
  <xs:element name="VendorEmail" type="xs:string"
    minOccurs="0" />
  <xs:element name="FinalQcAuditor" type="xs:string"
    minOccurs="0" />
  <xs:element name="VendorOrderId" type="xs:string"
    minOccurs="0" />
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
  use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
  fixed="StartVendorInfo" />
<xs:attribute name="p10End" type="xs:string" use="required"
  fixed="EndVendorInfo" />
</xs:complexType>
- <xs:complexType name="BillingInformationType">
  - <xs:sequence>
    <xs:element name="BlanketPoNumber" type="xs:string"
      minOccurs="0" />
    <xs:element name="PoNumber" type="xs:string"
      minOccurs="0" />
    <xs:element name="SoNumber" type="xs:string"
      minOccurs="0" />
    <xs:element name="ReleaseNumber" type="xs:string"
      minOccurs="0" />
  </xs:sequence>
  <xs:attribute name="groupName" type="xs:string"
    use="required" />
  <xs:attribute name="p10Start" type="xs:string" use="required"
    fixed="StartBillingInformation" />
  <xs:attribute name="p10End" type="xs:string" use="required"
    fixed="EndBillingInformation" />
</xs:complexType>
- <xs:complexType name="MaterialsUsedType">
  - <xs:sequence>
    <xs:element name="TopPellicleUsed" type="xs:string"
      minOccurs="0" />
    <xs:element name="BottomPellicleUsed" type="xs:string"
      minOccurs="0" />
    <xs:element name="PackageUsed" type="xs:string"
      minOccurs="0" />
    <xs:element name="Substrate" type="SubstrateType"
      minOccurs="0" />

```

```

</xs:sequence>
    <xs:attribute name="groupName" type="xs:string"
        use="required" />
    <xs:attribute name="p10Start" type="xs:string" use="required"
        fixed="StartMaterialsUsed" />
    <xs:attribute name="p10End" type="xs:string" use="required"
        fixed="EndMaterialsUsed" />
</xs:complexType>
- <xs:complexType name="SubstrateType">
    - <xs:sequence>
        <xs:element name="BlankLength" type="xs:double" />
        <xs:element name="BlankWidth" type="xs:double"
            minOccurs="0" />
        <xs:element name="BlankThickness" type="xs:double" />
        <xs:element name="BlankType" type="xs:string" />
        <xs:element name="BlankGrade" type="xs:string"
            minOccurs="0" />
        <xs:element name="BlankFlatness" type="xs:double"
            minOccurs="0" />
        <xs:element name="BlankFlatnessUsed" type="xs:double"
            minOccurs="0" />
        <xs:element name="BlankVendor" type="xs:string"
            minOccurs="0" />
        <xs:element name="BlankBirefringenceReqd"
            type="xs:double" minOccurs="0" />
        <xs:element name="BlankBirefringenceUsed"
            type="xs:double" minOccurs="0" />
        <xs:element name="Coating" type="CoatingType"
            minOccurs="0" maxOccurs="unbounded" />
        <xs:element name="BlankIndexOfRefraction"
            type="xs:double" minOccurs="0" />
        <xs:element name="BlankLot" type="xs:string"
            minOccurs="0" />
        <xs:element name="BlankDateOfMfg" type="xs:dateTime"
            minOccurs="0" />
        <xs:element name="EuvBlankType"
            type="EuvBlankTypeType" minOccurs="0" />
    </xs:sequence>
    <xs:attribute name="groupName" type="xs:string"
        use="required" />
    <xs:attribute name="p10Start" type="xs:string" use="required"
        fixed="StartSubstrate" />
    <xs:attribute name="p10End" type="xs:string" use="required"
        fixed="EndSubstrate" />
</xs:complexType>
- <xs:complexType name="CoatingType">
    - <xs:sequence>
        - <xs:element name="CoatingType">
            - <xs:simpleType>
                - <xs:restriction base="xs:string">

```

```

<xs:enumeration value="CHROME" />
<xs:enumeration value="RESIST" />
<xs:enumeration value="ATTENUATOR" />
</xs:restriction>
</xs:simpleType>
</xs:element>
<xs:element name="CoatingComposition" type="xs:string"
  minOccurs="0" />
<xs:element name="CoatingThickness" type="xs:double"
  minOccurs="0" />
<xs:element name="CoatingReflectance" type="xs:double"
  minOccurs="0" />
<xs:element name="CoatingTransmittance"
  type="xs:double" minOccurs="0" />
<xs:element name="CoatingWavelength" type="xs:double"
  minOccurs="0" />
<xs:element name="CoatingGrade" type="xs:string"
  minOccurs="0" />
<xs:element name="CoatingPhase" type="xs:double"
  minOccurs="0" />
<xs:element name="CoatingOpticalDensity"
  type="xs:double" minOccurs="0" />
<xs:element name="CoatingLotNumber" type="xs:string"
  minOccurs="0" />
<xs:element name="CoatingDateTime" type="xs:dateTime"
  minOccurs="0" />
<xs:element name="CoatingMaskVendorApplied"
  type="xs:boolean" minOccurs="0" />
<xs:element name="CoatingEquipUsed" type="xs:string"
  minOccurs="0" />
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
  use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
  fixed="StartCoating" />
<xs:attribute name="p10End" type="xs:string" use="required"
  fixed="EndCoating" />
</xs:complexType>
- <xs:complexType name="EuvBlankTypeType">
  - <xs:sequence>
    <xs:element name="EuvBlankType" type="xs:string" />
    <xs:element name="EuvFlatnessFront" type="xs:string" />
    <xs:element name="EuvFlatnessBack" type="xs:string" />
    <xs:element name="EuvMultilayerComposition"
      type="xs:string" />
    <xs:element name="EuvCappingComposition"
      type="xs:string" />
    <xs:element name="EuvMmrWavelength" type="xs:string"
      />
  
```

```

<xs:element name="EuvMeanPeakReflectivity"
    type="xs:string" />
<xs:element name="EuvPeakReflectivityUniformity"
    type="xs:string" />
<xs:element name="EuvAbsorberComposition"
    type="xs:string" />
<xs:element name="EuvAbsorberOpticalProperties"
    type="xs:string" />
<xs:element name="EuvBlankResistance" type="xs:string"
    />
<xs:element name="EuvExpansionCoeff" type="xs:string" />
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
    fixed="StartEuvBlankType" />
<xs:attribute name="p10End" type="xs:string" use="required"
    fixed="EndEuvBlankType" />
</xs:complexType>
- <xs:complexType name="WaferExposureData">
    - <xs:sequence>
        <xs:element name="WaferExposureNumericalAperature"
            type="xs:double" />
        <xs:element name="WaferExposureSigma" type="xs:double"
            minOccurs="0" />
        - <xs:sequence minOccurs="0">
            <xs:element name="WaferExposureSigmaInner"
                type="xs:string" />
            <xs:element name="WaferExposureSigmaOuter"
                type="xs:string" />
        </xs:sequence>
        <xs:element name="WaferExposureIllumination"
            type="xs:string" />
    </xs:sequence>
    <xs:attribute name="groupName" type="xs:string"
        use="required" />
    <xs:attribute name="p10Start" type="xs:string" use="required"
        fixed="StartWaferExposureData" />
    <xs:attribute name="p10End" type="xs:string" use="required"
        fixed="EndWaferExposureData" />
</xs:complexType>
- <xs:complexType name="AerialImageData">
    - <xs:sequence>
        <xs:element name="AimWavelength" type="xs:double" />
        <xs:element name="AimIntensityVariationDelta"
            type="xs:double" minOccurs="0" />
        <xs:element name="AimFluxIntensityDelta"
            type="xs:double" />
        <xs:element name="AimCdDelta" type="xs:double" />
    </xs:sequence>

```

```

<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
    fixed="StartAerialImageData" />
<xs:attribute name="p10End" type="xs:string" use="required"
    fixed="EndAerialImageData" />
</xs:complexType>
- <xs:complexType name="LithoInformationType">
    - <xs:sequence>
        - <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="LithoEquipReqd" type="xs:string"
                minOccurs="0" />
            <xs:element name="EquipSiteReqd" type="xs:string"
                minOccurs="0" maxOccurs="unbounded" />
        - <xs:sequence minOccurs="0" maxOccurs="unbounded">
            <xs:element name="LithoModelReqd"
                type="xs:string" minOccurs="0" />
            <xs:element name="LithoModeReqd"
                type="xs:string" minOccurs="0"
                maxOccurs="unbounded" />
        </xs:sequence>
    </xs:sequence>
    <xs:element name="LithoEquipUsed" type="xs:string"
        minOccurs="0" />
    <xs:element name="EquipSiteUsed" type="xs:string"
        minOccurs="0" />
    <xs:element name="LithoModelUsed" type="xs:string"
        minOccurs="0" />
    <xs:element name="LithoModeUsed" type="xs:string"
        minOccurs="0" />
    <xs:element name="MachineSerialNumber" type="xs:string"
        minOccurs="0" />
    <xs:element name="MaskSerialNumber"
        type="xs:unsignedLong" minOccurs="0" />
    <xs:element name="Process" type="xs:string" minOccurs="0"
        />
    <xs:element name="WriteDateTime" type="xs:dateTime"
        minOccurs="0" />
    <xs:element name="ElapsedWriteTime"
        type="xs:unsignedInt" minOccurs="0" />
    <xs:element name="Operator" type="xs:string"
        minOccurs="0" />
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
    fixed="StartLithoInformation" />
<xs:attribute name="p10End" type="xs:string" use="required"
    fixed="EndLithoInformation" />
</xs:complexType>
- <xs:complexType name="PatternGroupResultsType">

```

```

- <xs:sequence>
  <xs:element name="PatternGroupId" type="xs:string" />
  <xs:element name="PhaseShiftMeasurements"
    type="PhaseShiftMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
  <xs:element name="RegistrMeasurements"
    type="RegistrMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
  <xs:element name="ClosureMeasurements"
    type="ClosureMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
  <xs:element name="CdGroupMeasurements"
    type="CdGroupMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
  <xs:element name="CdSetResults" type="CdSetResultsType"
    minOccurs="0" maxOccurs="unbounded" />
  <xs:element name="CdXyResults" type="CdXyResultsType"
    minOccurs="0" maxOccurs="unbounded" />
  <xs:element name="CdIsoDenseResults"
    type="CdIsoDenseResultsType" minOccurs="0"
    maxOccurs="unbounded" />
  <xs:element name="DefectMeasurements"
    type="DefectMeasurementsType" minOccurs="0"
    maxOccurs="unbounded" />
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
  use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
  fixed="StartPatternGroupResults" />
<xs:attribute name="p10End" type="xs:string" use="required"
  fixed="EndPatternGroupResults" />
</xs:complexType>
- <xs:complexType name="PhaseShiftMeasurementsType">
  - <xs:sequence>
    <xs:element name="PsmWavelength" type="xs:double" />
    <xs:element name="PhaseShiftQualityId" type="xs:string"
      minOccurs="0" />
  - <xs:element name="TransmissionMeasurements"
    minOccurs="0">
    - <xs:complexType>
      - <xs:sequence>
        <xs:element
          name="TransmissionMeasurementDate"
          type="xs:dateTime" minOccurs="0" />
        <xs:element name="TransmissionEquipUsed"
          type="xs:string" minOccurs="0" />
        <xs:element name="TransmissionModeUsed"
          type="xs:string" minOccurs="0" />
        <xs:element
          name="TransmissionMeasurementFileName
          " type="xs:string" minOccurs="0" />

```

```

<xs:element name="TransmissionTarget"
    type="xs:double" />
<xs:element
    name="TransmissionReferenceOnly"
    type="xs:boolean" minOccurs="0" />
<xs:element name="TransmissionTolerance"
    type="xs:double" minOccurs="0" />
<xs:element name="TransmissionRange"
    type="xs:double" minOccurs="0" />
<xs:element name="TransmissionError"
    type="xs:double" minOccurs="0" />
<xs:element
    name="MeasuredTransmissionAverage"
    type="xs:double" minOccurs="0" />
<xs:element
    name="MeasuredTransmissionTolerance"
    type="xs:double" minOccurs="0" />
<xs:element
    name="MeasuredTransmissionRange"
    type="xs:double" minOccurs="0" />
<xs:element name="TransmissionMarkFeature"
    type="xs:string" minOccurs="0" />
<xs:element
    name="TransmissionMarkLocationDrawing"
    type="xs:string" minOccurs="0" />
<xs:element
    name="TransmissionMarkDrawing"
    type="xs:string" minOccurs="0" />
- <xs:element
    name="MeasuredTransmissionMarkSiteId"
    maxOccurs="unbounded">
- <xs:complexType>
- <xs:sequence minOccurs="0">
- <xs:element
        name="TransmissionMarkLocat
        ion">
- <xs:complexType>
- <xs:complexContent>
- <xs:extension
        base="XYCoordTy
        pe">
<xs:attribute
        name="p10M
        ultiValue"
        type="xs:inte
        ger"
        use="require
        d" fixed="2"
        />
</xs:extension>
</xs:complexContent>

```

```

        </xs:complexType>
    </xs:element>
    - <xs:element
        name="MeasuredTransmission
        MarkLocation">
        - <xs:complexType>
            - <xs:complexContent>
                - <xs:extension
                    base="XYCoordTy
                    pe">
                    <xs:attribute
                        name="p10M
                        ultiValue"
                        type="xs:inte
                        ger"
                        use="require
                        d" fixed="2"
                    />
                </xs:extension>
            </xs:complexContent>
        </xs:complexType>
    </xs:element>
    <xs:element
        name="MeasuredTransmission
        " type="xs:double" />
    <xs:element
        name="MeasuredTransmission
        Error" type="xs:double"
        minOccurs="0" />
    </xs:sequence>
    <xs:attribute name="groupName"
        type="xs:string" use="required" />
    <xs:attribute name="p10Start"
        type="xs:string" use="required"
        fixed="MeasuredTransmissionMark
        SiteId" />
    <xs:attribute name="p10End"
        type="xs:string" use="required"
        fixed="EndMeasuredTransmissionSi
        te" />
    </xs:complexType>
    </xs:element>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string"
    use="required"
    fixed="StartTransmissionMeasurements" />
<xs:attribute name="p10End" type="xs:string"
    use="required"
    fixed="EndTransmissionMeasurements" />

```

```

        </xs:complexType>
    </xs:element>
    - <xs:element name="PhaseAngleMeasurements"
        minOccurs="0">
        - <xs:complexType>
            - <xs:sequence>
                <xs:element
                    name="PhaseAngleMeasurementDate"
                    type="xs:dateTime" minOccurs="0" />
                <xs:element name="PhaseAngleEquipUsed"
                    type="xs:string" minOccurs="0" />
                <xs:element name="PhaseAngleModeUsed"
                    type="xs:string" minOccurs="0" />
                <xs:element
                    name="PhaseAngleMeasurementFileName"
                    type="xs:string" minOccurs="0" />
                <xs:element name="PhaseAngleTarget"
                    type="xs:double" />
                <xs:element
                    name="PhaseAngleReferenceOnly"
                    type="xs:boolean" minOccurs="0" />
                <xs:element name="PhaseAngleTolerance"
                    type="xs:double" minOccurs="0" />
                <xs:element name="PhaseAngleRange"
                    type="xs:double" minOccurs="0" />
                <xs:element name="PhaseAngleError"
                    type="xs:double" minOccurs="0" />
                <xs:element
                    name="MeasuredPhaseAngleAverage"
                    type="xs:double" minOccurs="0" />
                <xs:element
                    name="MeasuredPhaseAngleTolerance"
                    type="xs:double" minOccurs="0" />
                <xs:element
                    name="MeasuredPhaseAngleRange"
                    type="xs:double" minOccurs="0" />
                <xs:element name="PhaseAngleMarkFeature"
                    type="xs:string" minOccurs="0" />
                <xs:element
                    name="PhaseAngleMarkLocationDrawing"
                    type="xs:string" minOccurs="0" />
                <xs:element name="PhaseAngleMarkDrawing"
                    type="xs:string" minOccurs="0" />
            - <xs:element
                name="MeasuredPhaseAngleMarkSiteId"
                maxOccurs="unbounded">
                - <xs:complexType>
                    - <xs:sequence minOccurs="0">
                        - <xs:element
                            name="PhaseAngleMarkLocati
                            on">

```

```

- <xs:complexType>
  - <xs:complexContent>
    - <xs:extension
      base="XYCoordTy
      pe">
      <xs:attribute
        name="p10M
        ultiValue"
        type="xs:inte
        ger"
        use="require
        d" fixed="2"
        />
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:element>
- <xs:element
  name="MeasuredPhaseAngleM
  arkLocation">
  - <xs:complexType>
    - <xs:complexContent>
      - <xs:extension
        base="XYCoordTy
        pe">
        <xs:attribute
          name="p10M
          ultiValue"
          type="xs:inte
          ger"
          use="require
          d" fixed="2"
          />
      </xs:extension>
    </xs:complexContent>
</xs:complexType>
</xs:element>
<xs:element
  name="MeasuredPhaseAngle"
  type="xs:double" />
<xs:element
  name="MeasuredPhaseAngleEr
  ror" type="xs:double"
  minOccurs="0" />
</xs:sequence>
<xs:attribute name="groupName"
  type="xs:string" use="required" />
<xs:attribute name="p10Start"
  type="xs:string" use="required"
  fixed="MeasuredPhaseAngleMarkSi
  teld" />

```

```

<xs:attribute name="p10End"
    type="xs:string" use="required"
    fixed="EndMeasuredPhaseAngleSiti
e" />
    </xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string"
    use="required"
    fixed="StartPhaseAngleMeasurements" />
<xs:attribute name="p10End" type="xs:string"
    use="required"
    fixed="EndPhaseAngleMeasurements" />
    </xs:complexType>
</xs:element>
- <xs:element name="EtchDepthMeasurements"
    minOccurs="0">
- <xs:complexType>
- <xs:sequence>
<xs:element
    name="EtchDepthMeasurementDate"
    type="xs:dateTime" minOccurs="0" />
<xs:element name="EtchDepthEquipUsed"
    type="xs:string" minOccurs="0" />
<xs:element name="EtchDepthModeUsed"
    type="xs:string" minOccurs="0" />
<xs:element
    name="EtchDepthMeasurementFileName"
    type="xs:string" minOccurs="0" />
<xs:element name="EtchDepthTarget"
    type="xs:double" />
<xs:element name="EtchDepthReferenceOnly"
    type="xs:boolean" minOccurs="0" />
<xs:element name="EtchDepthTolerance"
    type="xs:double" minOccurs="0" />
<xs:element name="EtchDepthRange"
    type="xs:double" minOccurs="0" />
<xs:element name="EtchDepthError"
    type="xs:double" minOccurs="0" />
<xs:element
    name="MeasuredEtchDepthAverage"
    type="xs:double" minOccurs="0" />
<xs:element
    name="MeasuredEtchDepthTolerance"
    type="xs:double" minOccurs="0" />
<xs:element
    name="MeasuredEtchDepthRange"
    type="xs:double" minOccurs="0" />

```

```

<xs:element name="EtchDepthMarkFeature"
    type="xs:string" minOccurs="0" />
<xs:element
    name="EtchDepthMarkLocationDrawing"
    type="xs:string" minOccurs="0" />
<xs:element name="EtchDepthMarkDrawing"
    type="xs:string" minOccurs="0" />
- <xs:element
    name="MeasuredEtchDepthMarkSiteId"
    maxOccurs="unbounded">
- <xs:complexType>
- <xs:sequence minOccurs="0">
- <xs:element
    name="EtchDepthMarkLocatio
    n">
- <xs:complexType>
- <xs:complexContent>
- <xs:extension
    base="XYCoordTy
    pe">
<xs:attribute
    name="p10M
    ultiValue"
    type="xs:inte
    ger"
    use="require
    d" fixed="2"
    />
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
- <xs:element
    name="MeasuredEtchDepthMa
    rkLocation">
- <xs:complexType>
- <xs:complexContent>
- <xs:extension
    base="XYCoordTy
    pe">
<xs:attribute
    name="p10M
    ultiValue"
    type="xs:inte
    ger"
    use="require
    d" fixed="2"
    />
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

```

</xs:element>
<xs:element
    name="MeasuredEtchDepth"
    type="xs:double" />
<xs:element
    name="MeasuredEtchDepthErr"
    or" type="xs:double"
    minOccurs="0" />
</xs:sequence>
<xs:attribute name="groupName"
    type="xs:string" use="required" />
<xs:attribute name="p10Start"
    type="xs:string" use="required"
    fixed="MeasuredEtchDepthMarkSiteId" />
<xs:attribute name="p10End"
    type="xs:string" use="required"
    fixed="EndMeasuredEtchDepthSite"
    />
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string"
    use="required"
    fixed="StartEtchDepthMeasurements" />
<xs:attribute name="p10End" type="xs:string"
    use="required"
    fixed="EndEtchDepthMeasurements" />
</xs:complexType>
</xs:element>
<xs:element name="Operator" type="xs:string"
    minOccurs="0" />
</xs:sequence>
<xs:attribute name="groupName" type="xs:string"
    use="required" />
<xs:attribute name="p10Start" type="xs:string" use="required"
    fixed="StartPhaseShiftMeasurements" />
<xs:attribute name="p10End" type="xs:string" use="required"
    fixed="EndPhaseShiftMeasurements" />
</xs:complexType>
- <xs:complexType name="RegistrMeasurementsType""0" maxOccurs="unbounded">
    <xs:element name="RegistrQualityId" type="xs:string"
        minOccurs="0" />
    <xs:element name="RegistrEquipReqd" type="xs:string"
        minOccurs="0" maxOccurs="unbounded" />
    <xs:element name="EquipSiteReqd" type="xs:string"
        minOccurs="0" maxOccurs="unbounded" />

```

```

<xs:element name="RegistrRefMethodReqd"
    type="xs:string" minOccurs="0" maxOccurs="unbounded"
/>
<xs:element name="RegistrStdGrid" type="xs:string"
    minOccurs="0" />
<xs:element name="RegistrAlgorithm" type="xs:string"
    minOccurs="0" />
<xs:element name="RegistrCompensationTemperature"
    type="xs:double" minOccurs="0" />
<xs:element name="RegistrEquipUsed" type="xs:string"
    minOccurs="0" />
<xs:element name="EquipSiteUsed" type="xs:string"
    minOccurs="0" />
<xs:element name="RegistrRefMethodUsed"
    type="xs:string" minOccurs="0" />
<xs:element name="RegistrStdGridUsed" type="xs:string"
    minOccurs="0" />
<xs:element name="RegistrAlgorithmUsed" type="xs:string"
    minOccurs="0" />
<xs:element name="RegistrMeasurementDate"
    type="xs:dateTime" minOccurs="0" />
- <xs:sequence minOccurs="0">
    <xs:element name="RegistrRefMaskId" type="xs:string"
        />
    <xs:element name="RegistrRefMaskSetId"
        type="xs:string" />
</xs:sequence>
<xs:element name="RegistrError" type="xs:double"
    minOccurs="0" />
- <xs:sequence minOccurs="0">
    - <xs:element name="RegistrScale">
        - <xs:complexType>
            - <xs:complexContent>
                - <xs:extension base="XYCoordType">
                    <xs:attribute name="p10MultiValue"
                        type="xs:integer" use="required"
                        fixed="2" />
                </xs:extension>
            </xs:complexContent>
        </xs:complexType>
    </xs:element>
    <xs:element name="RegistrScaleReferenceOnly"
        type="xs:boolean" minOccurs="0" />
</xs:sequence>
- <xs:sequence minOccurs="0">
    - <xs:element name="RegistrResidual">
        - <xs:complexType>
            - <xs:complexContent>
                - <xs:extension base="XYCoordType">

```