From:	Mathew, Manoj
To:	Aniyath, Praseedha
Subject:	FW: macro commands for focus offset for find surface.
Date:	Friday, October 9, 2020 9:47:34 AM
Attachments:	2-Experiment1.czmac

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Best Regards,
Manoj

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From: Stafford, Mark <mark.stafford@zeiss.com>
Sent: Friday, October 9, 2020 9:09 AM
To: Mathew, Manoj <manoj.mathew@zeiss.com>
Cc: Muller, Arne <arne.muller@zeiss.com>; Pocock, Kyall <kyall.pocock@zeiss.com>
Subject: macro commands for focus offset for find surface.

Hi Manoj,

I hope you're doing ok and things are going well?

I have a request from one of our CD7 customers with the PAA loader to modify one of our focusing macros to include the following sequence:

"Can we record a sequence of steps to run as an experiment for automation (maybe in experiment design?)?
(eg. 1. find surface -> go to off-set 10um -> store focus -> run the program)"

It's going to be something like this.

```
if (focstrat=='005'):

    ## Example: Change to 5x/0.35 Objective 1.0x Mag Changer Find Surface Store Focus

    Zen.Acquisition.FindSurface()# initial Find Focus
```

```
Zen.Devices.ObjectiveChanger.TargetPosition = 1

Zen.Devices.ObjectiveChanger.Apply()

Zen.Devices.Optovar.TargetPosition = 2

Zen.Devices.Optovar.Apply()

##Zen.Application.Wait(15000)

##find focus-position and initialize DF

Zen.Acquisition.FindSurface()

Zen.Acquisition.StoreFocus()
```

I need to add something here I think to get the offset but I'm not sure of the way to get +/- 10 um from the actual position of the find surface focus point?

Might be something like what I have in blue below but I'm not sure.

```
##find focus-position and initialize DF

Zen.Acquisition.FindSurface()

Zen.Devices.Focus.ActualPosition ....("something something here")

Zen.Acquisition.StoreFocus()
```

If you have any advice on the command syntax that would be really helpful. Full macro is attached.

Cheers and thanks.

Best regards,

Mark.

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